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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 30, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1904.]

NOTE.—To obtain those publications, to which a Price is affixed, application must be made to the Superintendent of Documents, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of the Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

NEW PUBLICATIONS.

Annual Reports of the Department of Agriculture for the Fiscal Year Ended June 30, 1903. Report of the Secretary of Agriculture. Departmental Reports. Pp. cviii, 1-560. Cloth. Published by authority of Congress.

CONTENTS: Educational requirements of agricultural research—Our surplus production—The farmer's balance of trade—Magnitude of production—National stock of farm animals—Better distribution of progress—Weather Bureau—Bureau of Animal Industry—Bureau of Plant Industry—Bureau of Forestry—Bureau of Chemistry—Bureau of Soils—Bureau of Statistics—Division of Entomology—Biological Survey—Office of Experiment Stations—Office of Public Road Inquiries—Division of Accounts and Disbursements—Division of Publications—The Library—New buildings for the Department—Crisis in Cotton production—Departmental reports.

Indian Corn in Argentina: Production and Export. By Frank W. Bicknell, Special Agent. Pp. 48, pls. 7. (Report No. 75.) Price 10 cents.

The Available Energy of Timothy Hay. Investigations with the Respiration Calorimeter, in Cooperation with the Pennsylvania State College Agricultural Experiment Station. By Henry Prentiss Armsby, Ph. D., and J. August Fries, B. S. Pp. 77, pls. 2, diags. 4. (Bulletin No. 51, Bureau of Animal Industry.) Price 10 cents.

Reports on Bovine Tuberculosis and Public Health. By D. E. Salmon, D. V. M., Chairman of the Committee on Animal Diseases and Animal Food of the American Public Health Association. Pp. 63. (Bulletin No. 53, Bureau of Animal Industry.) Price 5 cents.

Annual reports on the relationship between bovine and human tuberculosis made to the American Public Health Association for the years 1901, 1902, and 1903.

North American Fauna No. 23. Index Generum Mammalium: A List of the Genera and Families of Mammals. By T. S. Palmer, Assistant, Biological Survey. Prepared under the direction of Dr. C. Hart Merriam, Chief of Division of Biological Survey. Pp. 984. Price 50 cents.

Not available for general distribution.

Some Insects Attacking the Stems of Growing Wheat, Rye, Barley, and Oats, with Methods of Prevention and Suppression. Prepared under the direction of the Entomologist, by F. M. Webster, M. S., Special Field Agent. Pp. 62, figs. 15. (Bulletin No. 42, Division of Entomology.) Price 5 cents.

Deals with the injuries committed to small grains by different forms of minute flies, eight species in all, which are generally confused by the average farmer with the Hessian fly. Suggestions are made for the mitigation of their ravages.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Pp. 100. (Bulletin No. 137, Office of Experiment Stations.) Price 5 cents.

Proceedings of the Eighth Annual Meeting of the American Association of Farmers' Institute Workers, Held at Toronto, Ontario, June 23-26, 1903. Edited by W. H. Beal, for the Office of Experiment Stations, and G. C. Creelman for the Association. Pp. 119. (Bulletin No. 138, Office of Experiment Stations.) Price 10 cents.

Special and Short Courses in Agricultural Colleges. By D. J. Crosby, of the Office of Experiment Stations. Pp. 59. (Bulletin No. 139, Office of Experiment Stations.) Price 5 cents.

A brief review of the extent and nature of the short-course and special-course work of the Agricultural Colleges.

Acquirement of Water Rights in the Arkansas Valley in Colorado. By J. S. Greene. Pp. 83, pl. 1, fig. 1. (Bulletin No. 140, Office of Experiment Stations.) Price 5 cents.

Reconocimiento De Terrenos Desde Arecibo Á Ponce, Puerto Rico. Por Clarence W. Dorsey, Louis Mesmer y Thomas A. Caine, Ayudantes en el Bureau de Terrenos, Departamento de Agricultura, E. U. A. Pp. 54, lam. 4, fig. 1, mapa 1. (Boletín No. 3, Estación de agrícolas de Puerto Rico.) Price 15 cents.

Experiment Station Record. Vol. XV, No. 5. E. W. Allen, Ph. D., Editor. Pp. viii, 421-532. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Crop Reporter. Vol. 5, No. 9. Published by the U. S. Department of Agriculture, under the supervision of the Statistician. Pp. 69-76.

A three-column quarto publication devoted to agricultural statistics.

Circular No. 40, revised edition, Division of Biological Survey.—Directory of State Officials and Organizations Concerned with the Protection of Birds and Game, 1903.

Constitution of the Association of American Agricultural Colleges and Experiment Stations, as amended at the Seventh Annual Convention of the Association, Washington, D. C., November 17-19, 1903. Pp. 4. (Circular No. 56, Office of Experiment Stations.)

Monthly List of Publications. December, 1903. Pp. 4. (No. 478, Division of Publications.)

List of Bulletins and Circulars issued by the U. S. Department of Agriculture and Available for Free Distribution. Corrected to January 1, 1904. Pp. 32. (No. 247—tenth edition, Division of Publications.)

Foreign Trade in Farm and Forest Products, 1903. By George K. Holmes, Chief of Division of Foreign Markets. Pp. 20. (Circular No. 15, Bureau of Statistics.)

REPRINTS.

- Bulletin No. 29, Bureau of Animal Industry.—American Breeds of Fowls. I.—The Plymouth Rock. Price 15 cents.
- Bulletin No. 31, Bureau of Animal Industry.—American Breeds of Fowls. II.—The Wyandotte. Price 15 cents.
- Bulletin No. 46, revised edition, Division of Chemistry.—Methods of Analysis Adopted by the Association of Official Agricultural Chemists, November 11, 12, and 14, 1898. Price 5 cents.
- Bulletin No. 65, Bureau of Chemistry.—Provisional Methods for the Analysis of Foods Adopted by the Association of Official Agricultural Chemists, November 14–16, 1901. Price 10 cents.
- Bulletin No. 43, Division of Entomology.—A Brief Account of the Principal Insect Enemies of the Sugar Beet. Price 5 cents.
- Bulletin No. 28, revised edition, Office of Experiment Stations. The Chemical Composition of American Food Materials. Price 5 cents.
- Bulletin No. 17, Division of Forestry.—Check List of the Forest Trees of the United States, Their Names and Ranges. Price 15 cents.
- Bulletin No. 26, Division of Forestry.—Practical Forestry in the Adirondacks. Price 15 cents.
- Bulletin No. 31, Division of Forestry.—Notes on the Red Cedar. Price 10 cents.
- Bulletin No. 37, Bureau of Forestry.—The Hardy Catalpa. Price 25 cents.
- Bulletin No. 31, Bureau of Plant Industry.—Cultivated Forage Crops of the Northwestern States. Price 10 cents.
- Bulletin No. 24, Office of Public Road Inquiries.—Proceedings of the North Carolina Good Roads Convention, Held at Raleigh, February 12 and 13, 1902. Price 10 cents.
- Bulletin No. 22, Bureau of Soils.—The Chemistry of the Soil as Related to Crop Production. Price 5 cents.
- Bulletin No. 26, miscellaneous series, Bureau of Statistics.—Wages of Farm Labor in the United States. Price 5 cents.
- Audubon Societies in Relation to the Farmer. (From Yearbook of the Department of Agriculture for 1902.)
- Constitution and By-Laws of the American Association of Farmers' Institute Workers, as Amended at the Eighth Annual Meeting, Toronto, Canada, 1903. (From Bulletin No. 138, Office of Experiment Stations.)
- Proceedings of the Eighth Annual Meeting of the American Association of Farmers' Institute Workers, held at Toronto, Canada, June 23–26, 1903. I.—Minutes of the Meeting. (Report from Bulletin No. 138, Office of Experiment Stations.)
- Same*, Part II.—Papers, Addresses, and Discussions.
- New Building for Farm Mechanics at Iowa College of Agriculture and Mechanic Arts. (Reprint from Experiment Station Record, Vol. XV, No. 3.)
- Report of the Chief of the Biological Survey for 1903. (From Annual Reports Department of Agriculture.)

FARMERS' BULLETINS.

- Meat on the Farm: Butchering, Curing, and Keeping. By Andrew Boss, of the College of Agriculture, University of Minnesota. Pp. 39, figs. 35. (Farmers' Bulletin No. 183.)
- Directions for butchering cattle, sheep, hogs, and poultry, and how to cure, smoke, and keep meats.
- Marketing Live Stock. By Prof. Charles S. Plumb, Professor of Animal Husbandry, College of Agriculture and Domestic Science, Ohio State University. Pp. 40. (Farmers' Bulletin No. 184.)
- Information in relation to the marketing of live stock for the use of those whose experience in that line has been more or less limited.

REPRINTS.

- No. 21.—Barnyard Manure.
 No. 22.—The feeding of Farm Animals. Revised edition.
 No. 24.—Hog Cholera and Swine Plague.
 No. 29.—Souring of Milk and Other Changes in Milk Products.
 No. 35.—Potato Culture.
 No. 38.—Spraying for Fruit Diseases.
 No. 42.—Facts About Milk.
 No. 51.—Standard Varieties of Chickens.
 No. 54.—Some Common Birds in Their Relation to Agriculture.
 No. 64.—Ducks and Geese: Standard Breeds and Management.
 No. 66.—Meadows and Pastures: Formation and Cultivation in the Middle Eastern States. Revised edition.
 No. 76.—Tomato Growing.
 No. 82.—The Culture of Tobacco.
 No. 86.—Thirty Poisonous Plants of the United States.
 No. 91.—Potato Diseases and Their Treatment.
 No. 94.—The Vegetable Garden.
 No. 96.—Raising Sheep for Mutton.
 No. 100.—Hog Raising in the South.
 No. 106.—Breeds of Dairy Cattle.
 No. 109.—Farmers' Reading Courses.
 No. 111.—The Farmer's Interest in Good Seed.
 No. 126.—Practical Suggestions for Farm Buildings.
 Vo. 141.—Poultry Raising on the Farm.
 No. 149.—Experiment Station Work—XX.
 No. 151.—Dairying in the South.
 No. 154.—The Home Fruit Garden: Preparation and Care.
 No. 156.—The Home Vineyard, with Special Reference to Northern Conditions.
 No. 173.—A Primer of Forestry.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXI, No. 10. October, 1903. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 449-502, figs. 6, charts 11. (W. B. No. 297.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1903), reporting temperature and rainfall with reference to their effect on crops. (No. 32 for the month of December, 1903.)

Snow and Ice Bulletin for Tuesdays, January 5, 12, 19, and 26. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing Weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

The Condition of the Coffee Industry in Porto Rico. By J. W. Van Leenhoff, Coffee Expert. (Circular No. 2, Porto Rico Agricultural Station.)

Migration of Birds. P. 1. (Circular No. 41, Biological Survey.) Request for information.

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *February 29, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1904.]

NOTE.—To obtain those publications, to which a **Price** is affixed, application must be made to the **Superintendent of Documents, Washington, D. C.**, to whom all remittances must be directed, except for **Weather Bureau** publications, for which payment may be made to the **Chief of that Bureau**. **Stamps and personal checks will not be accepted.**

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NEW PUBLICATIONS.

BULLETINS.

Index-Catalogue of Medical and Veterinary Zoology. [Authors F to Fynney.] By **Ch. Wardell Stiles, Ph. D.**, Consulting Zoologist of **Bureau of Animal Industry**; Zoologist of **U. S. Public Health and Marine-Hospital Service**, and **Albert Hassall, M. R. C. V. S.**, Veterinary Inspector, **Bureau of Animal Industry**. Pp. 437-510. (Bulletin No. 39, **Bureau of Animal Industry**.) Part 6. Price 5 cents.

The Hog Industry. Selection, Feeding, and Management. Recent American Experimental Work. Statistics of Production and Trade. By **George M. Rommel, B. S. A.**, Expert in Animal Husbandry, **Bureau of Animal Industry**. Pp. 298, maps 3. (Bulletin No. 47, **Bureau of Animal Industry**.) In 3 parts. Price 15 cents.

Experiments Concerning Tuberculosis, under the supervision of the **Biochemic Division**. Part I.—The Virulence of Human and Bovine Tubercle Bacilli for Guinea Pigs and Rabbits. By **Marion Dorset, M. D.**, Assistant Chief of **Biochemic Division, Bureau of Animal Industry**. Pp. 30, pls. 5. (Bulletin No. 52, Part I, **Bureau of Animal Industry**.) Price 10 cents.

Laws (Federal, State, and Territorial) Relating to Contagious and Infectious Diseases of Animals. 1902 and 1903. Pp. 46. (Bulletin No. 54, **Bureau of Animal Industry**.) Price 5 cents.

Statistics of the Dairy. Compiled from the **United States Census** for 1900, and from Other Reliable Sources, with Explanatory Notes, by **Henry E. Alvord, C. E.**, Chief of the **Dairy Division**. Pp. 88, pls. 9. (Bulletin No. 55, **Bureau of Animal Industry**.) Price 10 cents.

Adulterated Drugs and Chemicals. I. Inferior Drugs and Insidious Methods of Deception. II. Rose Geranium Oil and Its Substitutes. III. Phenacetin: Methods of Analysis and Commercial Status. By **Lyman F. Kebler**, Chief of **Drug Laboratory**. Pp. 47. (Bulletin No. 80, **Bureau of Chemistry**.) Price 5 cents.

Experiment Station Record. Vol. XV, No. 6. E. W. Allen, Ph. D., Editor. Pp. ix, 533-632. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Accessions to the Department Library. October-December, 1903. Pp. 64. (Library Bulletin No. 49.) Price 5 cents.

The Work of the Community Demonstration Farm at Terrell, Texas. By Seaman A. Knapp, Special Agent in Charge of Farmers' Cooperative Demonstration Work. Pp. 8. (Bulletin No. 51, Part II, Bureau of Plant Industry.) Price 5 cents.

The Dry Rot of Potatoes Due to *Fusarium Oxysporum*. By Erwin F. Smith and Deane B. Swingle, Laboratory of Plant Pathology. Vegetable Pathological and Physiological Investigations. Pp. 64, pls. 8, figs. 2. (Bulletin No. 55, Bureau of Plant Industry.) Price 10 cents.

REPRINTS.

BULLETINS.

Bulletin No. 13, Bureau of Chemistry, Part Tenth. Foods and Food Adulterants. Preserved Meats. Price 10 cents.

Bulletin No. 77, Bureau of Chemistry. Olive Oil and Its Substitutes. Price 5 cents.

Bulletin No. 8, Division of Pomology. Revised Catalogue of Fruits Recommended for Cultivation in the Various Sections of the United States and the British Provinces by the American Pomological Society. Price 5 cents.

CIRCULARS.

NEW.

Immunization from Hog Cholera. Pp. 3. (Circular No. 43, Bureau of Animal Industry.)

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1903. Pp. 14. (Circular No. 13, Bureau of Chemistry.)

Supplemental Report on Drainage in the Fresno District, California. By G. C. Elliott, Agent and Expert, Irrigation Investigations. (Circular No. 57, Office of Experiment Stations.)

Monthly List of Publications, January, 1904. Pp. 4. (No. 479, Division of Publications.)

Reclamation of Alkali Land Near Salt Lake City, Utah. By W. H. Heileman. Pp. 8, fig. 1. (Circular No. 12, Bureau of Soils.)

Crop Reporter. Vol. 5, No. 10. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 77-84.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 23, second revision, Bureau of Animal Industry.—Directions for the Use of Blackleg Vaccine.

Circular No. 31, revised, Bureau of Animal Industry.—Blackleg: Its Nature, Cause, and Prevention.

Circular No. 53, Office of Experiment Stations.—Report of the Committee on Rural Engineering of the Association of American Agricultural Colleges and Experiment Stations.

Report of the Appointment Clerk for 1903. (From Annual Reports, Department of Agriculture.)

Report of the Office of Public Road Inquiries for 1903. (From Annual Reports, Department of Agriculture.)

Sugar-Beet Pulp as Animal Food. (From Report No. 74, Progress of the Beet Sugar Industry in the United States in 1902.)

FARMERS' BULLETINS.

Beautifying the Home Grounds. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 24, figs. 8. (Farmers' Bulletin No. 185.)

Suggestions for and plans for planting trees, plants, and shrubs, together with directions for the preparation and fertilization of the soil, pruning and planting, and making and maintaining a green sward.

Experiment Station Work—XXIII. Compiled from the publications of the Agricultural Experiment Stations. Prepared in the Office of Experiment Stations. A. C. True, Director. Pp. 32, figs. 9. (Farmers' Bulletin No. 186.)

CONTENTS: Losses in manure—Macaroni wheats—Sterilizing greenhouse soils—Tomatoes under glass—Protection of peach buds—Dandelions in lawns—Apple pomace for cows—Rations for laying hens—Early molting of hens—Evaporation from incubator eggs—The keeping quality of butter—Curing cheese in cold storage.

Drainage of Farm Lands. By C. G. Elliott, Drainage Expert, Irrigation Investigations, Office of Experiment Stations. Pp. 40, figs. 19. (Farmers' Bulletin No. 187.)

Describes the nature of a drained soil, the mechanical make-up of soils, natural and artificial drainage, surface drainage, underdrainage, and open drains.

Information Concerning the Mexican Cotton Boll Weevil. By W. D. Hunter, Special Agent in Charge of Cotton Boll Weevil Investigations, Division of Entomology. Pp. 31, figs. 8. (Farmers' Bulletin No. 189.)

The Cotton Bollworm: An Account of the Insect, with Results of Experiments in 1903. By A. L. Quaintance, Agent in Charge of Cotton Bollworm Investigations. Pp. 24, figs. 7. (Farmers' Bulletin No. 191.)

REPRINTS.

No. 22.—The Feeding of Farm Animals. Revised edition.

No. 28.—Weeds; and How to Kill Them. Revised edition.

No. 33.—Peach Growing for Market.

No. 38.—Spraying for Fruit Diseases.

No. 44.—Commercial Fertilizers: Composition and Use.

No. 45.—Some Insects Injurious to Stored Grain. Revised edition.

No. 48.—The Manuring of Cotton.

No. 55.—The Dairy Herd: Its Formation and Management. Revised January, 1904.

No. 56.—Experiment Station Work—I.

No. 63.—Care of Milk on the Farm.

No. 75.—The Grain Smuts: How They are Caused and How to Prevent Them.

No. 77.—The Liming of Soils.

No. 81.—Corn Culture in the South.

No. 95.—Good Roads for Farmers.

No. 113.—The Apple and How to Grow It.

No. 118.—Grape Growing in the South.

No. 131.—Household Tests for the Detection of Oleomargarine and Renovated Butter.

No. 140.—Pineapple Growing.

No. 141.—Poultry Raising on the Farm.

No. 150.—Clearing New Land.

No. 155.—How Insects Affect Health in Rural Districts.

No. 162.—Experiment Station Work—XXI.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXI, No. 11. November, 1903. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 503-563, figs. 17, charts 12. (W. B. No. 299.) Price 20 cents. \$2 per year.

Weather Folk-Lore and Local Weather Signs. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. By Edward B. Garriott, Professor of Meteorology. Pp. 153, charts 21. Bulletin No. 53. Reprint. (W. B. No. 294.) Cloth. Price 35 cents.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (No. 1 for the month of January, 1904.)

Snow and Ice Bulletin for Tuesdays, February 2, 9, 16, and 23. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing Weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATION NOT AVAILABLE.

Letter from The Secretary of Agriculture, transmitting a statement of expenditures in that Department for the year ended June 30, 1903. (House Doc. No. 34, 58th Cong., 1st Sess.)

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,

Editor and Chief.

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This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *March 31, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1904.]

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NEW PUBLICATIONS.

BULLETINS.

Studies upon the Keeping Quality of Butter. I.—Canned Butter. By Lore A. Rogers, Expert in Dairy Bacteriology, Bureau of Animal Industry. Pp. 24. (Bulletin No. 57, Bureau of Animal Industry.) Price 5 cents.

Deals with the particular features of changes occurring in canned butter.

Experiments on Losses in Cooking Meat, 1900–1903. By H. S. Grindley, D. Sc., Associate Professor of Chemistry, College of Science, University of Illinois, and Timothy Mojonnier, M. S. Pp. 95. (Bulletin No. 141, Office of Experiment Stations.) Price 5 cents.

Experiment Station Record. Vol. XV, No. 7. E. W. Allen, Ph. D., Editor. Pp. x, 633–736, pl. 1, figs. 2. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Foreign Import Tariffs on Fruits and Nuts, 1903. By Frank H. Hitchcock. Pp. 69. (Bulletin No. 36, Division of Foreign Markets.) Price 5 cents.

Fruit Trees Frozen in 1904. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Orchard Fruits. Vegetable Pathological and Physiological Investigations. Pp. 7. (Bulletin No. 51, Part III, Bureau of Plant Industry.) Price 5 cents.

Wither-Tip and Other Diseases of Citricus Trees and Fruits, caused by Colletotrichum Glœosporioides. By P. H. Rolfs, Pathologist in Charge of Subtropical Laboratory. Vegetable Pathological and Physiological Investigations. Pp. 22, pls. 6, fig. 1. (Bulletin No. 52, Bureau of Plant Industry.) Price 15 cents.

Methods Used for Controlling and Reclaiming Sand Dunes. By A. S. Hitchcock, Assistant Agrostologist, in Charge of Cooperative Experiments. Grass and Forage Plant Investigations. Pp. 36, pls. 9. (Bulletin No. 57, Bureau of Plant Industry.) Price 10 cents.

REPRINTS.

BULLETINS.

Bulletin No. 13, Bureau of Chemistry, Part Ninth. Cereals and Cereal Products. Price 15 cents.

Bulletin No. 40, new series, Division of Entomology. Proceedings of the Fifteenth Annual Meeting of the Association of Economic Entomologists. Price 10 cents.

CIRCULARS.

NEW.

Reclamation of Flood Damaged Lands in the Kansas River Valley by Forest Planting. By George L. Clothier, Field Assistant, Bureau of Forestry. Pp. 5, fig. 1. (Circular No. 27, Bureau of Forestry.)

Monthly List of Publications, February, 1904. Pp. 4. (No. 482, Division of Publications.)

The Railroads and the Wagon Roads. By A. L. Craig. Pp. 4. (Circular No. 37, Office of Public Road Inquiries.)

Crop Reporter. Vol. 5, No. 11. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 85-92.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS.

REPRINTS.

Circular No. 52, second edition, Division of Entomology. The Lime, Sulphur and Salt Wash.

Circular No. 23, revised edition, Bureau of Forestry. Suggestions to Prospective Forest Students.

Circular No. 21, Office of Road Inquiry. Methods of Constructing Macadamized Roads.

Small-Fruit Culture for Market. (From Yearbook of the Department of Agriculture for 1895.)

Four Common Birds of the Farm and Garden. (From Yearbook of the Department of Agriculture for 1895.)

The Meadow Lark and Baltimore Oriole. (From Yearbook of the Department of Agriculture for 1895.)

The Future Demand for American Cotton. (From Yearbook of the Department of Agriculture for 1901.)

Road Building with Convict Labor in the Southern States. (From Yearbook of the Department of Labor for 1901.)

Bacteria and the Nitrogen Problem. (From Yearbook of the Department of Agriculture for 1902.)

Sugar-Beet Pulp as Animal Food. (From Report No. 74, Progress of the Beet Sugar Industry in the United States in 1902.)

Soil Survey of the Hickory Area, North Carolina. (From Field Operations, Bureau of Soils, 1902.)

Soil Survey of the Mount Mitchell Area, North Carolina. (From Field Operations, Bureau of Soils, 1902.)

Crop Reporter. Vol. 2, No. 3.

FARMERS' BULLETINS.

Weeds Used in Medicine. By Alice Henkel, Assistant in Drug and Medicinal Plant Investigations, Botanical Investigations and Experiments, Bureau of Plant Industry. Pp. 47, figs. 31. (Farmers' Bulletin No. 188.)

Descriptions of weeds used in medicine; instructions for collecting and preparing crude drugs from weeds, and suggestions as to the manner of disposing of, packing, and shipping them.

Experiment Station Work—XXIV. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, figs. 14. (Farmers' Bulletin No. 190.)

CONTENTS: Cost of eggs in winter—The chicken mite—Soiling crops—Profitable and unprofitable cows—Methods of milking—Coating cheese with paraffin—The octagonal silo—Ventilation of stables—Disposal of diseased carcasses.

Barnyard Manure. [A Revision of Farmers' Bulletin No. 21.] By W. H. Beal, of the Office of Experiment Stations. Pp. 32, figs. 4. (Farmers' Bulletin No. 192.)

REPRINTS.

- No. 24.—Hog Cholera and Swine Plague.
- No. 34.—Meats: Composition and Cooking.
- No. 35.—Potato Culture.
- No. 37.—Kafir Corn: Characteristics, Culture, and Uses.
- No. 39.—Onion Culture.
- No. 41.—Fowls: Care and Feeding.
- No. 49.—Sheep Feeding.
- No. 51.—Standard Varieties of Chickens.
- No. 52.—The Sugar Beet: Culture, Seed Development, Manufacture, and Statistics.
- No. 55.—The Dairy Herd: Its Formation and Management. Revised January, 1904.
- No. 57.—Butter Making on the Farm.
- No. 59.—Bee Keeping.
- No. 62.—Marketing Farm Produce.
- No. 63.—Care of Milk on the Farm.
- No. 69.—Experiment Station Work.—III.
- No. 71.—Some Essentials in Beef Production.
- No. 74.—Milk as Food.
- No. 84.—Experiment Station Work—VII.
- No. 91.—Potato Diseases and Their Treatment.
- No. 98.—Suggestions to Southern Farmers.
- No. 106.—Breeds of Dairy Cattle.
- No. 109.—Farmers' Reading Courses.
- No. 112.—Bread and the Principles of Bread Making.
- No. 114.—Experiment Station Work—XIV.
- No. 116.—Irrigation in Fruit Growing.
- No. 123.—Red Clover Seed: Information for Purchasers.
- No. 125.—Protection of Food Products from Injurious Temperatures.
- No. 129.—Sweet Potatoes.
- No. 132.—The Principal Insect Enemies of Growing Wheat.
- No. 135.—Sorghum Sirup Manufacture.
- No. 137.—The Angora Goat.
- No. 138.—Irrigation in Field and Garden.
- No. 141.—Poultry Raising on the Farm.
- No. 142.—Principles of Nutrition and Nutritive Value of Food. Revised edition.
- No. 143.—Conformation of Beef and Dairy Cattle.
- No. 144.—Experiment Station Work—XIX.
- No. 147.—Winter Forage Crops for the South.

- No. 151.—Dairying in the South.
 No. 152.—Scabies in Cattle.
 No. 156.—The Home Vineyard, with Special Reference to Northern Conditions.
 No. 157.—The Propagation of Plants.
 No. 159.—Scab in Sheep.
 No. 161.—Practical Suggestions for Fruit Growers.
 No. 164.—Rape as a Forage Crop.
 No. 165.—Silkworm Culture.
 No. 168.—Pearl Millet.
 No. 169.—Experiment Station Work—XXII.
 No. 170.—Principles of Horse Feeding.
 No. 173.—A Primer of Forestry.
 No. 175.—Home Manufacture and Use of Fermented Grape Juice.
 No. 177.—Squab Raising.
 No. 178.—Insects Injurious in Cranberry Culture.
 No. 180.—Game Laws for 1903. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses.
 No. 181.—Pruning.
 No. 182.—Poultry as Food.
 No. 183.—Meat on the Farm: Butchering, Curing, and Keeping.
 No. 189.—Information Concerning the Mexican Cotton Boll Weevil.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Meteorological Chart of the Great Lakes. Summary for the Season of 1903. By Alfred J. Henry and Norman B. Conger. Prepared under direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 17, chart 1. No. 2, 1903. (W. B. No. 298.) Price 10 cents.

Monthly Weather Review. Vol. XXI, No. 12. December, 1903. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 565–624, figs. 9, charts 12. (W. B. No. 300.) Price 20 cents. \$2 per year.

Monthly Weather Review. Vol. XXI, No. 13. Annual Summary, 1903. Prepared under the direction of Willis L. Moore, Chief U. S. Weather. Pp. vii, 625–652, charts 8. (W. B. No. 302.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (No. 2, for the month of February, 1904.)

Snow and Ice Bulletins for Tuesdays, March 1, 8, 15, 22, and 29. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing Weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATION NOT AVAILABLE.

Insecticides for Use in Hawaii. By D. L. Van Dine, Entomologist, Hawaii Agricultural Experiment Station. Under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 21, pl. 1, figs. 7. (Bulletin No. 3, Hawaii Agricultural Experiment Station.)

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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P9619

This circular will be sent regularly to all who apply for it.

No. 487.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *April 30, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1904.]

NOTE.—To obtain those publications, to which a Price is affixed, application must be made to the Superintendent of Documents, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

NEW PUBLICATIONS.

BULLETINS.

Proceedings of the Sixteenth Annual Meeting of the Association of Economic Entomologists. Pp. 113, pls. 2, fig. 1. (Bulletin No. 46, Division of Entomology.) Price 10 cents.

Experiment Station Record. Vol. XV, No. 8. E. W. Allen, Ph. D., Editor. Pp. x, 737–838. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Foreign Import Tariffs on Meat and Meat Products, 1903. By Frank H. Hitchcock. Pp. 64. (Bulletin No. 35, Division of Foreign Markets.) Price 5 cents.

Foreign Import Tariffs on Grain and Grain Products, 1903. By Frank H. Hitchcock. Pp. 59. (Bulletin No. 37, Division of Foreign Markets.) Price 5 cents.

The Date Palm and its Utilization in the Southwestern States. By Walter T. Swingle, Physiologist in Charge of Laboratory of Plant Life History. Vegetable Pathological and Physiological Investigations. Pp. 155, pls. 22, figs. 10. (Bulletin No. 53, Bureau of Plant Industry.) Price 20 cents.

Pasture, Meadow, and Forage Crops in Nebraska. By T. L. Lyon, Agriculturist, Nebraska Experiment Station, and A. S. Hitchcock, Assistant Agrostologist, in Charge of Cooperative Experiments, U. S. Department of Agriculture. Grass and Forage Plant Investigations. Pp. 64, pls. 6, figs. 8. (Bulletin No. 59, Bureau of Plant Industry.) Price 10 cents.

REPRINT.

Bulletin No. 17, Office of Road Inquiry. Historical and Technical Papers on Road Building in the United States. Price 5 cents.

CIRCULARS.

NEW.

Methods and Benefits of Growing Sugar Beets. By Charles F. Saylor, Special Agent for the Investigation of the Sugar Industry. Pp. 27. (Circular No. 11, Office of the Secretary.)

Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for the Year 1904. By Henry E. Alvord, Chief of Dairy Division. (Circular No. 44, Bureau of Animal Industry.)

Forest Fires in the Adirondacks in 1903. By H. M. Suter, Agent, Bureau of Forestry. Pp. 15, map. (Circular No. 26, Bureau of Forestry.)

Monthly List of Publications, March, 1904. Pp. 4. (No. 485, Division of Publications.)

Crop Reporter. Vol. 5, No. 12. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 93-100.

A three-column quarto publication devoted to agricultural statistics.

The Work of the Bureau of Soils. Pp. 13. (Circular No. 13, Bureau of Soils.)

REPRINTS.

Circular No. 43, Bureau of Animal Industry. Immunization from Hog Cholera.

Circular No. 17, Division of Biological Survey. Bird Day in the Schools.

Circular No. 7, second series, Division of Entomology. The Pear-Tree Psylla (*Psylla pyricola* Foerst).

Circular No. 21, revised edition, Bureau of Forestry. Practical Assistance to Farmers, Lumbermen, and Others in Handling Forest Lands.

Circular No. 22, second revision, Bureau of Forestry. Practical Assistance to Tree Planters.

Single-Germ Beet Balls and Other Suggestions for Improving Sugar-Beet Culture. (From Report on Progress of Beet Sugar Industry in 1902.)

FARMERS' BULLETINS.

Alfalfa Seed. By Edgar Brown, Botanist in Charge of Seed Laboratory, Botanical Investigations and Experiments, Bureau of Plant Industry. Pp. 14, figs. 8. (Farmers' Bulletin No. 194.)

Calls attention to the unusually low quality of Alfalfa seed offered on the market, describes the seed, the adulterants, and the manner of testing to determine purity.

Annual Flowering Plants. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 48, figs. 55. (Farmers' Bulletin No. 195.)

Suggestions for the use of plants about dwellings, construction of hotbeds and cold frames, dates for planting seed, and general cultural directions; also plans for school gardens.

REPRINTS.

No. 22.—The Feeding of Farm Animals. Revised edition.

No. 31.—Alfalfa, or Lucern.

No. 35.—Potato Culture.

No. 41.—Fowls: Care and Feeding.

No. 42.—Facts About Milk.

No. 49.—Sheep Feeding.

- No. 51.—Standard Varieties of Chickens.
- No. 54.—Some Common Birds in Their Relation to Agriculture. (Revised March, 1904.)
- No. 57.—Butter Making on the Farm.
- No. 64.—Ducks and Geese: Standard Breeds and Management.
- No. 65.—Experiment Station Work—II.
- No. 66.—Meadows and Pastures: Formation and Culture in the Middle Eastern States. (Edition of March, 1904.)
- No. 68.—The Black Rot of the Cabbage.
- No. 76.—Tomato Growing.
- No. 81.—Corn Culture in the South.
- No. 86.—Thirty Poisonous Plants of the United States.
- No. 89.—Cowpeas.
- No. 91.—Potato Diseases and Their Treatment.
- No. 94.—The Vegetable Garden.
- No. 96.—Raising Sheep for Mutton.
- No. 98.—Suggestions to Southern Farmers.
- No. 99.—Three Insect Enemies of Shade Trees.
- No. 100.—Hog raising in the South.
- No. 102.—Southern Forage Plants.
- No. 106.—Breeds of Dairy Cattle.
- No. 111.—The Farmer's Interest in Good Seed.
- No. 113.—The Apple and How to Grow It.
- No. 136.—Earth Roads.
- No. 141.—Poultry Raising on the Farm.
- No. 154.—The Home Fruit Garden; Preparation and Care.
- No. 155.—How Insects Affect Health in Rural Districts.
- No. 161.—Practical Suggestions for Fruit Growers.
- No. 162.—Experiment Station Work XXI.
- No. 170.—Principles of Horse Feeding.
- No. 183.—Meat on the Farm: Butchering, Curing, and Keeping.
- No. 189.—Information Concerning the Mexican Cotton Boll Weevil.
- No. 191.—The Cotton Bollworm: An Account of the Insect With Results of Experiments in 1903.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 1. January, 1904. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 50, figs. 20, charts 12. (W. B. No. 305.) Price 20 cents. \$2 per year.

Monthly Weather Review. Vol. XXXII, No. 2. February, 1904. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 51-104, figs. 18, charts 12. (W. B. No. 306.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (No. 3, for the month of March, and Nos. 4, 5, and 6 for April, 1904.)

Daily Weather Map, showing Weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

New Dairy Barn at the Kentucky Station. (Reprint from Experiment Station Record, Vol. XV, No. 7.)

A Respiration Calorimeter for Farm Animals. (Reprint from Experiment Station Record, Vol. XV, No. 8.)

Experiment Station Work. Vol. II, No. 4. (Compiled from the Publications of the Agricultural Experiment Stations.) Pp. iv, 85-112.

Message from the President of the United States Transmitting a Report by the Secretary of Agriculture Relating to the Operations of the Bureau of Animal Industry for the year ended June 30, 1903.

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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✓ This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *May 31, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1904.]

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NEW PUBLICATIONS.

BULLETINS.

Yearbook of the U. S. Department of Agriculture, 1903. Pp. 728, frontispiece, pls. 65, figs. 54. Price 75 cents.

The Yearbook contains the annual report of the Secretary of Agriculture and thirty-two miscellaneous papers covering a variety of subjects representative of the varied scientific work of the Department.

The Appendix contains the organization of the Department; description of the proposed new buildings for the Department; lists of agricultural colleges and other institutions having courses of agriculture; agricultural experiment stations; and other information of interest to the farmer, including statistics of the principal crops and imports and exports of agricultural products.

Only 6 per cent of this publication is assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. The other 94 per cent is reserved for Senators, Representatives, and Delegates in Congress.

The Yearbook is for sale by the Superintendent of Documents.

An Enemy of the Cotton Boll Weevil. By O. F. Cook, Botanist in Charge of Investigations in Tropical Agriculture, Bureau of Plant Industry. Pp. 7. (Report No. 78.)

Progress of the Beet-Sugar Industry in the United States in 1903. By Charles F. Saylor, Special Agent. Pp. 184. Congressional Publication.

Digestion Experiments with Poultry. By E. W. Brown, Ph. D., Assistant in the Biochemic Division. Prepared under the supervision of E. A. De Schweinitz, Ph. D., Chief of Biochemic Division of the Bureau of Animal Industry. Pp. 112, pls. 4, charts, 2. (Bulletin No. 56, Bureau of Animal Industry.) Price 20 cents.

Paris Green Spraying Experiments. By J. K. Haywood, Chief Insecticide and Agricultural Water Laboratory. In Collaboration with the Division of Entomology, U. S. Department of Agriculture, and the agricultural experiment stations of Maryland, New York, New Hampshire, Rhode Island, South Carolina, and Oregon. Pp. 32, pls. 2. (Bulletin No. 82, Bureau of Chemistry.) Price 5 cents.

Result of experiments undertaken to show how much soluble arsenious oxid may be present in samples of Paris Green used for spraying purposes without injury to the foliage.

Some Miscellaneous Results of the Work of the Division of Entomology. VII. Prepared under the Direction of the Entomologist. Pp. 99, pl. 1, figs. 19. (Bulletin No. 44, Division of Entomology.) Price 10 cents.

The Mexican Cotton Boll Weevil. Prepared under the direction of the Entomologist, by W. D. Hunter and W. E. Hinds. Pp. 116, pls. 16, figs. 6. (Bulletin No. 45, Division of Entomology.) Price 25 cents.

Gives the life history, habits, development, hibernation, seasonal history, dissemination and methods of combating the Mexican cotton boll weevil.

Catalogue of the Exhibit of Economic Entomology at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. Compiled under the direction of the Entomologist, by E. S. G. Titus and F. C. Pratt. Pp. 155. (Bulletin No. 47, Division of Entomology.) Price 10 cents.

Experiment Station Record. Vol. XV, No. 9. E. W. Allen, Ph. D., Editor. Pp. x, 839-942. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

The Planting of White Pine in New England. By Harold B. Kempton, Field Assistant, Bureau of Forestry. Pp. 40, pls. 13, figs. 2. (Bulletin No. 45, Bureau of Forestry.) Price 20 cents.

Cross-Tie Forms and Rail Fastenings, with Special Reference to Treated Timbers. By Hermann Von Schrenk, In Charge of Forest Products, Bureau of Forestry. Pp. 70, pls. 5, figs. 71. (Bulletin No. 50, Bureau of Forestry.) Price 15 cents.

Accessions to the Department Library. January-March, 1904. Pp. 62. (Library Bulletin No. 50.) Price 5 cents.

The Vitality and Germination of Seeds. By J. W. T. Duvel, Assistant in the Seed Laboratory. Botanical Investigations and Experiments. Pp. 96, fig. 2. (Bulletin No. 58, Bureau of Plant Industry.) Price 10 cents.

A Method of Destroying or Preventing the Growth of Algæ and Certain Pathogenic Bacteria in Water Supplies. By George T. Moore, Physiologist and Algologist in Charge of Laboratory of Plant Physiology, and Karl F. Kellerman, Assistant in Physiology. Vegetable Pathological and Physiological Investigations. Pp. 44. (Bulletin No. 64, Bureau of Plant Industry.) Price 5 cents.

REPRINTS.

Bulletin No. 141, Office of Experiment Stations. Experiments on Losses in Cooking Meat, 1900-1903. Price 5 cents.

Bulletin No. 47, Bureau of Animal Industry. The Hog Industry. Parts I, II, and III. Price 30 cents.

CIRCULARS.

NEW.

Crop Reporter. Vol. 6, No. 1. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 1-8.

A three-column quarto publication devoted to agricultural statistics.

NOTE.—For the convenience of those who may desire to receive this publi-

cation regularly, the Superintendent of Documents will furnish it at 60 cents per volume (12 numbers), including postage, payable in advance.

Monthly List of Publications, April, 1904. Pp. 4. (No. 487, Division of Publications).

Publications of the U. S. Department of Agriculture for Sale by the Superintendent of Documents, Government Printing Office, Washington, D. C. Corrected to May 1, 1904. Pp. 60. (No. 179, Division of Publications.) Eleventh edition.

REPRINTS.

Circular No. 11, Office of the Secretary. Methods and Benefits of Growing Sugar Beets.

Some of the Principal Insect Enemies of Coniferous Forests in the United States. (From Yearbook of Department of Agriculture for 1902.)

The San Jose Scale: Its Native Home and Natural Enemy. (From Yearbook of Department of Agriculture for 1902.)

The Chestnut Weevils, with Notes on Other Nut-Feeding Species. By F. H. Chittenden. (From Bulletin No. 44, Division of Entomology.)

FARMERS' BULLETINS.

Experiment Station Work—XXV. Compiled from the Publications of the Agricultural Experiment Stations. Prepared in the Office of Experiment Stations, A. C. True, Director. Pp. 32, figs. 9. (Farmers' Bulletin No. 193.)

CONTENTS: Watermelons in the North—Watermelon culture in Georgia—Muskmelon culture in the North—Rockyford muskmelons—Cold storage of fruits—Selection of seed corn—Bread and toast—Cooking meat—Bitter milk.

Usefulness of the American Toad. By A. H. Kirkland, M. S. Pp. 16. Farmers' Bulletin No. 196.

Describes the toad as a destroyer of insects and shows that this little animal is a valuable friend to all who are engaged in agriculture.

REPRINTS.

No. 24.—Hog Cholera and Swine Plague.

No. 28.—Weeds; and How to Kill Them. Revised edition.

No. 29.—Souring of Milk and Other Changes in Milk Products.

No. 37.—Kafir Corn; Characteristics, Culture, and Uses.

No. 38.—Spraying for Fruit Diseases.

No. 44.—Commercial Fertilizers: Composition and Use.

No. 47.—Insects Affecting the Cotton Plant.

No. 50.—Sorghum as a Forage Crop.

No. 54.—Some Common Birds in Their Relation to Agriculture (Revised).

No. 55.—The Dairy Herd: Its Formation and Management.

No. 58.—The Soy Bean as a Forage Crop.

No. 61.—Asparagus Culture.

No. 63.—Care of Milk on the Farm.

No. 71.—Some Essentials in Beef Production.

No. 73.—Experiment Station Work—IV.

No. 77.—The Liming of Soils.

No. 79.—Experiment Station Work—VI.

No. 83.—Tobacco Soils.

No. 95.—Good Roads for Farmers.

No. 101.—Millets.

No. 112.—Bread and the Principles of Bread Making.

No. 116.—Irrigation in Fruit Growing.

No. 119.—Experiment Station Work—XV.

No. 120.—The Principal Insects Affecting the Tobacco Plant.

No. 121.—Beans, Peas, and Other Legumes as Food. Revised edition.

No. 122.—Experiment Station Work—XVI.

No. 124.—Experiment Station Work—XVII.

No. 126.—Practical Suggestions for Farm Buildings.

No. 128.—Eggs and Their Uses as Foods. Revised edition.

No. 134.—Tree Planting on Rural School Grounds.

No. 142.—Principles of Nutrition and Nutritive Value of Food. Revised edition.

No. 143.—Conformation of Beef and Dairy Cattle.

- No. 144.—Experiment Station Work—XIX.
 No. 148.—Celery Culture.
 No. 149.—Experiment Station Work—XX.
 No. 150.—Clearing—New Land.
 No. 158.—How to Build Small Irrigation Ditches.
 No. 165.—Silkworm Culture.
 No. 166.—Cheese Making on the Farm.
 No. 169.—Experiment Station Work—XXII.
 No. 170.—Principles of Horse Feeding.
 No. 171.—The Control of the Codling Moth.
 No. 172.—Scale Insects and Mites on Citrus Trees.
 No. 173.—A Primer of Forestry.
 No. 174.—Broom Corn.
 No. 175.—Home Manufacture of Unfermented Grape Juice.
 No. 177.—Squab Raising.
 No. 179.—Horseshoeing.
 No. 181.—Pruning.
 No. 182.—Poultry as Food.
 No. 184.—Marketing Live Stock.
 No. 185.—Beautifying the Home Grounds.
 No. 186.—Experiment Station Work—XXIII.
 No. 187.—Drainage of Farm Lands.
 No. 189.—Information Concerning the Mexican Cotton Boll Weevil.
 No. 191.—The Cotton Bollworm: An Account of the Insect, with Results of Experiments in 1903.
 No. 192.—Barnyard Manure. (A Revision of Farmers' Bulletin No. 21.)
 No. 195.—Annual Flowering Plants.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

The Floods of the Spring of 1903 in the Mississippi Watershed. By H. C. Frank-
 enfield, District Forecaster, in Charge of River and Flood Service. Prepared
 under direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 63,
 pls. 16, figs. 3, charts 15. Bulletin M. (W. B. No. 303.) Price \$1.

Monthly Weather Review. Vol. XXXII, No. 3. Prepared under the direction
 of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 50, figs. 20, charts 12.
 (W. B. No. 307.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference
 to their effect on crops. (Nos. 7, 8, 9, 10, and 11 for the month of May, 1904.)

Daily Weather Map, showing weather conditions throughout the United States and giving
 forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

Insect Photography. (From Bulletin No. 46, Division of Entomology.)

Some Serious Insect Depredations in New York in 1903. (From Bulletin No. 46,
 Division of Entomology.)

Notes on New Facts About Some New York Grape Pests. (From Bulletin No.
 46, Division of Entomology.)

On Some of the Aphides Affecting Grains and Grasses of the United States.
 (From Bulletin No. 46, Division of Entomology.)

Experiment Station Work. Vol. II, No. 5. Compiled from the publications of
 the Agricultural Experiment Stations. Pp. iv, 113-140, figs. 9.

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

1 P96M
No. 495.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *June 30, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1904.]

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BULLETINS.

NEW.

Alfalfa and Beef Production in Argentina. By Frank W. Bicknell, Special Agent. Pp. 32, pls. 6, figs. 5. (Report No. 77.)

Annual Report of the Office of Experiment Stations for the Year Ended June 30, 1903. Pp. 758, pls. 60. Congressional publication.

The Fat Testing of Cream by the Babcock Method. By Ed. H. Webster, Inspector and Dairy Expert, Dairy Division, Bureau of Animal Industry. Pp. 29, pls. 2, fig. 1. (Bulletin No. 58, Bureau of Animal Industry.) Price 5 cents.

The Farm Separator: Its Relation to the Creamery and to the Creamery Patron. By Ed. H. Webster, Inspector and Dairy Expert, Dairy Division, Bureau of Animal Industry. Pp. 47. (Bulletin No. 59, Bureau of Animal Industry.) Price 5 cents.

Proceedings of the Twentieth Annual Convention of the Association of Official Agricultural Chemists Held at Washington, D. C., November 19, 20, and 21, 1903. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 252. (Bulletin No. 81, Bureau of Chemistry.) Price 15 cents.

Foods and Food Control. I. Legislation During the Year Ended July 1, 1903. By W. D. Bigelow, Chief of Food Laboratory. Pp. 157. (Bulletin No. 83, Part I, Bureau of Chemistry.) Price 10 cents.

Catalogue of Exhibits of Insect Enemies of Forests and Forest Products at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. Prepared under the direction of the Entomologist by A. D. Hopkins, In Charge of Forest Insect Investigations. Pp. 56, pls. 22. (Bulletin No. 48, Division of Entomology.) Price 15 cents.

Proceedings of the Seventeenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations Held at Washington, D. C., November 17-19, 1903. Edited by A. C. True and W. H. Beal for the Office of Experiment Stations, and H. C. White for the Executive Committee of the Association. Pp. 196. (Bulletin No. 142, Office of Experiment Stations.) Price 10 cents.

Studies on the Digestibility and Nutritive Value of Bread at the Maine Agricultural Experiment Station 1899-1903. By C. D. Woods, Director Maine Agricultural Experiment Station, and L. H. Merrill, Chemist Maine Agricultural Experiment Station. Pp. 77. (Bulletin No. 143, Office of Experiment Stations.) Price 5 cents.

Experiment Station Record. Vol. XV, No. 10. E. W. Allen, Ph. D., Editor. Pp. X, 943-1032, pl. 1, fig. 1. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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A Soft Rot of the Calla Lily. By C. O. Townsend, Pathologist. Vegetable Pathological and Physiological Investigations. Pp. 47, pls. 9, figs. 7. (Bulletin No. 60, Bureau of Plant Industry.) Price 10 cents.

Reclamation of Cape Cod Sand Dunes. By J. M. Westgate, Assistant in Sand-Binding-Work. Grass and Forage Plant Investigations. Pp. 38, pls. 6. (Bulletin No. 65, Bureau of Plant Industry.) Price 10 cents.

Wheat Production and Farm Life in Argentina. By Frank W. Bicknell, Special Agent and Agricultural Explorer. Pp. 100, pls. 10. (Bulletin No. 27, Bureau of Statistics.) Price 10 cents.

REPRINTS.

Bulletin No. 69, Bureau of Chemistry, Part VI. Foods and Food Control. Digest and Index of Food Legislation to July 1, 1902. Price 5 cents.

Bulletin No. 27, Division of Vegetable Physiology and Pathology. The Wilt Disease of Cotton and Its Control. Price 5 cents.

CIRCULARS.

NEW.

Milk Fever: Its Simple and Successful Treatment. By John R. Mohler, V. M. D., Chief of Pathological Division. (Circular No. 45, Bureau of Animal Industry.)

The International Dairy Federation and International Dairy Congresses. By Henry E. Alvord, Chief of Dairy Division. Pp. 14. (Circular No. 46, Bureau of Animal Industry.)

Regulations for the Protection of Game in Alaska for the Year 1904. (Circular No. 42, Biological Survey.)

Irrigation in the Valley of Lost River, Idaho. By Albert Eugene Wright, Agent and Expert. Pp. 24. (Circular No. 58, Office of Experiment Stations.)

Practical Assistance to Users of Forest Products. Pp. 2. (Circular No. 28, Bureau of Forestry.)

Monthly List of Publications, May, 1904. Pp. 4. (No. 490, Division of Publications.)

List of Bulletins and Circulars issued by the U. S. Department of Agriculture and Available for Free Distribution. Corrected to June 15, 1904. Pp. 34. Eleventh edition. (No. 247.)

Crop Reporter. Vol. 6, No. 2. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 1-8.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 26, Bureau of Forestry. Forest Fires in the Adirondacks.

The Meadow Lark and Baltimore Oriole. (From Yearbook of Department of Agriculture for 1895.)

Four Common Birds of the Farm and Garden. (From Yearbook of Department of Agriculture for 1895.)

The Blue Jay and Its Food. (From Yearbook of Department of Agriculture for 1896.)

The Food of Nestling Birds. (From Yearbook of Department of Agriculture for 1900.)

Report of the Office of Public Road Inquiries for 1903. (From Annual Reports Department of Agriculture.)

FROM YEARBOOK OF DEPARTMENT OF AGRICULTURE FOR 1903.

Weather Bureau Stations and Their Duties. By James Kenealy, Local Forecaster, Weather Bureau. Pp. iii, 109-120, figs. 2.

The Growing of Long-Staple Upland Cotton. By Herbert J. Webber, Physiologist in Charge of Plant-Breeding Laboratory, Bureau of Plant Industry. Pp. iii, 121-136, pls. 5.

The United States Department of Agriculture and Silk Culture. By L. O. Howard, Ph. D., Entomologist. Pp. iii, 137-148, pls. 5.

- The Farmers' Institutes.** By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. ii, 149-158.
- Some Results of Investigations in Soil Management.** By F. H. King, Chief of Division of Soil Management, Bureau of Soils. Pp. iii, 159-174.
- The Cultivation of Corn.** By C. P. Hartley, Assistant in Physiology, Plant-Breeding Laboratory, Bureau of Plant Industry. Pp. v, 175-192, pls. 5, figs. 7.
- The Economic Value of the Bobwhite.** By Sylvester D. Judd, Ph. D., Assistant Ornithologist, Biological Survey. Pp. iii, 193-204, pl. 1.
- The Status of the Mexican Cotton Boll Weevil in the United States in 1903.** By W. D. Hunter, In Charge of Cotton Boll Weevil Investigations, Division of Entomology. Pp. ii, 205-214, pls. 5, fig. 1.
- Relation of Precipitation to Yield of Corn.** By J. Warren Smith, Section Director, Weather Bureau. Pp. ii, 215-224, figs. 8.
- Preparing Land for Irrigation.** By R. P. Teele, Editorial Assistant, Irrigation Investigations, Office of Experiment Stations. Pp. iii, 239-250, pls. 2, figs. 5.
- The Adulteration of Drugs.** By Lyman F. Kebler, Chief of Drug Laboratory, Bureau of Chemistry. Pp. iii, 251-258.
- Building Sand-Clay Roads in Southern States.** By W. L. Spoon, Special Agent, Office of Public Road Inquiries. Pp. iii, 259-266, pls. 2, figs. 3.
- The Relation of Forests to Stream Flow.** By James W. Toumey, Collaborator, Bureau of Forestry. Pp. iii, 279-288.
- Determination of Effect of Preservatives in Foods on Health and Digestion.** By H. W. Wiley, M. D., Chief of the Bureau of Chemistry. Pp. ii, 289-302.
- Use of Weather Records in Court.** By Henry J. Cox, Professor of Meteorology, Weather Bureau. Pp. ii, 303-312.
- Insect Injuries to Hardwood Forest Trees.** By A. D. Hopkins, In Charge of Forest Insect Investigations, Division of Entomology. Pp. iv, 313-323, pl. 1, figs. 17.
- Macaroni Wheat.** By James H. Shepard, Chemist, South Dakota Experiment Station. Pp. iii, 329-336.
- Cultivation of Drug Plants in the United States.** By Rodney H. True, Physiologist in Charge of Drug and Medicinal Plant Investigations, Bureau of Plant Industry. Pp. ii, 337-346, pls. 3.
- Wheat Flour and Bread.** By Harry Snyder, Professor of Chemistry, College of Agriculture, University of Minnesota, and Charles D. Woods, Director Maine Agricultural Experiment Station. Pp. iii, 347-362.
- A Model Farm.** By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. iii, 363-370, pls. 2.
- Some New Facts About the Migration of Birds.** By Wells W. Cooke, Assistant, Biological Survey. Pp. iii, 371-386, figs. 2.
- Principal Commercial Plant Fibers.** By Lyster H. Dewey, Botanist in Charge of Investigations of Fiber Plants, Bureau of Plant Industry. Pp. iii, 387-398, pls. 5.
- Relation of Sugar Beets to General Farming.** By C. O. Townsend, Pathologist, Bureau of Plant Industry. Pp. iii, 399-410, pls. 3.
- The Industry in Oil Seeds.** By Charles M. Daugherty, of the Bureau of Statistics. Pp. iii, 411-426.
- Recent Progress in Timber Preservation.** By Hermann Von Schrenk, in Charge of Forest Products, Bureau of Forestry. Pp. ii, 427-440, pls. 3, figs. 3.
- Some Soil Problems for Practical Farmers.** By E. C. Chilcott, Professor of Geology and Agronomy in the South Dakota Agricultural College. Pp. iii, 441-452.
- Progress of Road Building in the Middle West.** By R. W. Richardson, Special Agent, Middle Western Division, Office of Public Road Inquiries. Pp. ii, 453-462, pls. 3.
- Consumption of Cotton in the Cotton States.** By J. L. Watkins, Cotton Expert, Bureau of Statistics. Pp. iii, 463-473, pls. 4, fig. 1.
- The Nation's Farm Surplus.** By George K. Holmes, Chief of the Division of Foreign Markets, Bureau of Statistics. Pp. iii, 479-490.
- Relations of Federal Government to Control of Contagious Diseases of Animals.** By D. E. Salmon, D. V. M., Chief of the Bureau of Animal Industry. Pp. iii, 491-506.
- Statistical Matter Relating to Principal Crops and Farm Animals, Freight Rates, Exports, etc., of the United States, 1903.** Pp. 534-700.
- A Directory for Farmers, with Weather Conditions, Crop Injuries, etc., for 1903.** (Corrected to April 1, 1904.) Pp. 509-585, pls. 4, figs. 3.

FROM ANNUAL REPORTS OF THE OFFICE OF EXPERIMENT STATIONS FOR THE YEAR ENDED JUNE 30, 1904.

- Report on the Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1903.** Pp. vi, 23-227, pls. 4.
- Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1903.** Compiled by Miss M. T. Spethmann. Pp. iii, 221-253.
- Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations.** Pp. iii, 254-270.
- Organization of Governing Boards and Rules Adopted by Them for the Regulation of Agricultural Experiment Stations.** Pp. 271-310.
- Annual Report of the Alaska Agricultural Experiment Stations for 1903.** By C. C. Georgeson, Special Agent in Charge. Pp. iv, 313-390, pls. 9.
- Annual Report of the Hawaii Agricultural Experiment Station for 1903.** By Jared G. Smith, Special Agent in Charge. Pp. iv, 391-418, pls. 4.

- Annual Report of the Porto Rico Agricultural Experiment Station for 1903. By F. D. Gardner, Special Agent in Charge. Pp. iv, 419-468, pls. 6.
- Review of Irrigation Investigations for 1903. By Elwood Mead, Irrigation Expert in Charge. Pp. iv, 469-502, pls. 6.
- Nutrition Investigations at the Government Hospital for the Insane, Washington, D. C. By W. O. Atwater, Chief of Nutrition Investigations. Pp. iii, 503-512.
- A Summary of Recent American Work on Feeding Stuffs. By C. F. Langworthy, Ph. D., Office of Experiment Stations, U. S. Department of Agriculture. Pp. iii, 513-537.
- Experiment Station Work with Apples. By C. B. Smith, Horticultural Editor, Office of Experiment Stations. Pp. iii, 537-570.
- Progress in Agricultural Education, 1903. By A. C. True, Director of the Office of Experiment Stations. Pp. vi, 571-634, pls. 24.
- Farmers' Institutes in the United States. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. iii, 635-687.
- Development of the Text-Book of Agriculture in North America. By L. H. Bailey, Director of the College of Agriculture and Agricultural Experiment Station of Cornell University. Pp. 689-712.
- Agricultural Economics as a Subject of Study in the Agricultural College. By Kenyon L. Butterfield, A. M., President of the Rhode Island College of Agriculture and Mechanic Arts. Pp. 713-718.
- Instruction in Agriculture in Land-Grant Colleges and Schools for Colored Persons. By D. J. Crosby, Office of Experiment Stations. Pp. iii, 719-749, pls. 7.

FARMERS' BULLETINS.

- Importation of Game Birds and Eggs for Propagation. By T. S. Palmer and Henry Oldys, Assistants, Biological Survey. Pp. 30, fig. 1. (Farmers' Bulletin No. 197.)
- Strawberries. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 24, figs. 15. (Farmers' Bulletin No. 198.)
- Corn Growing. By C. P. Hartley, Assistant in Physiology, Plant Breeding Laboratory, Bureau of Plant Industry. Pp. 32, figs. 23. (Farmers' Bulletin No. 199.)
- Turkeys: Standard Varieties and Management. By T. F. McGrew, New York City. Pp. 44, figs. 12. (Farmers' Bulletin No. 200.)
- The Cream Separator on Western Farm. By Ed. H. Webster, Inspector and Dairy Expert, Dairy Division, Bureau of Animal Industry. Pp. 27. (Farmers' Bulletin No. 201.)
- Experiment Station Work—XXVI. Compiled from the Publications of the Agricultural Experiment Stations. Prepared in the Office of Experiment Stations. A. C. True, Director. Pp. 32, figs. 9. (Farmers' Bulletin No. 202.)

REPRINTS.

- No. 22.—The Feeding of Farm Animals.
- No. 24.—Hog Cholera and Swine Plague.
- No. 35.—Potato Culture.
- No. 36.—Cotton Seed and Its Products.
- No. 38.—Spraying for Fruit Diseases.
- No. 41.—Fowls: Care and Feeding.
- No. 42.—Facts About Milk.
- No. 48.—The Manuring of Cotton.
- No. 51.—Standard Varieties of Chickens.
- No. 55.—The Dairy Herd.
- No. 66.—Meadows and Pastures.
- No. 72.—Cattle Ranges of the Southwest: A History of the Exhaustion of the Pasturage and Suggestions for Its Restoration.
- No. 77.—The Liming of Soils.
- No. 89.—Cowpeas.
- No. 91.—Potato Diseases and Their Treatment.
- No. 93.—Sugar as Food.
- No. 94.—The Vegetable Garden.
- No. 95.—Good Roads for Farmers.
- No. 98.—Suggestions to Southern Farmers.
- No. 106.—Breeds of Dairy Cattle.
- No. 109.—Farmers' Reading Courses.
- No. 111.—The Farmer's Interest in Good Seed.
- No. 113.—The Apple and How to Grow It.
- No. 123.—Red Clover Seed: Information for Purchasers.
- No. 126.—Practical Suggestions for Farm Buildings.
- No. 129.—Sweet Potatoes.
- No. 135.—Sorghum Sirup Manufacture.
- No. 141.—Poultry Raising on the Farm.
- No. 146.—Insecticides and Fungicides: Chemical Composition and Effectiveness of Certain Preparations.

- No. 148.—Celery Culture.
- No. 152.—Scabies in Cattle.
- No. 154.—The Fruit Garden: Preparation and Care.
- No. 161.—Practical Suggestions for Fruit Growers.
- No. 173.—A Primer of Forestry.
- No. 177.—Squab Raising.
- No. 181.—Pruning.
- No. 182.—Poultry as Food.
- No. 184.—Marketing Live Stock.
- No. 185.—Beautifying the Home Grounds.
- No. 188.—Weeds Used in Medicine.
- No. 189.—Information Concerning the Mexican Cotton Boll Weevil.
- No. 190.—Experiment Station Work—XXIV.
- No. 192.—Barnyard Manure. (A revision of Farmers' Bulletin No. 21.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 4. April, 1904. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 159-206, charts 20. (W. B. No. 308.) Price 20 cents. \$2 per year.

Report of the Chief of the Weather Bureau, 1902-1903. In 6 parts. Pp. 308. Quarto. Cloth.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (Nos. 12, 13, 14, and 15 for the month of June, 1904.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

Determination of Gliadin and Glutenin in Flour by the Fleurent-Manget Method. By Joseph S. Chamberlain. Pp. iii, 118-125. (From Bulletin No. 81, Bureau of Chemistry.)

The Principal Injurious Insects of 1903. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments, Division of Entomology. Pp. 563-566. (From Yearbook of Department of Agriculture for 1903.)

Insect Photography. By M. V. Slingerland, Ithaca, N. Y. (From Bulletin No. 46, Division of Entomology.) Reprint.

The American System of Agricultural Education. By A. C. True and Dick J. Crosby, of the Office of Experiment Stations. Pp. 21, pls. 8. (Doc. 706, O. E. S.)

Description of Exhibit of Colleges of Agriculture and Mechanic Arts and Experiment Stations, Louisiana Purchase Exposition, St. Louis, Mo., 1904. By W. H. Beal, Office of Experiment Stations. Pp. 23, pl. 1. (Doc. 710, O. E. S.)

FROM BULLETIN NO. 142, OFFICE OF EXPERIMENT STATIONS.

Address of the President of the Association of American Agricultural Colleges and Experiment Stations. By J. K. Patterson, President of the Agricultural and Mechanical College of Kentucky. Pp. 33-41.

Memorial Address on President W. L. Brown. By P. H. Mell, Ph. D., President of Clemson Agricultural College of South Carolina. Pp. 42-44.

The Mission of the Land-Grant Colleges. By W. O. Thompson, President of Ohio State University. Pp. 89-94.

The Present Status of Soil Investigations. By C. G. Hopkins, Ph. D., Professor of Agronomy, and Chemist, of the Experiment Station, University of Illinois. Pp. 95-103.

Differences Between Four Southern and Four Northern Soils and Improvements in Soil Management Which These Differences Suggest. By F. H. King, Bureau of Soils, U. S. Department of Agriculture. Pp. 104-111.

Extension and Practical Application of Soil Surveys. By Milton Whitney, Chief of the Bureau of Soils, U. S. Department of Agriculture. Pp. 111-117.

Chemistry of Soils as Related to Crop Production—Bureau of Soils Bulletin No. 22. By E. W. Hilgard, Ph. D., LL. D., Professor of Agriculture, and Director and Chemist of the Experiment Station, University of California. Pp. 117-121.

Utility of Soil Surveys in the West. By R. H. Forbes, M. S., Professor of Chemistry, and Director and Chemist of the Experiment Station, University of Arizona. Pp. 121-123.

Artificial Irrigation in Humid and Semiarid Districts. By L. G. Carpenter, M. S., Professor of Civil and Irrigation Engineering, and Director of the Experiment Station, the State Agricultural College of Colorado. Pp. 125-127.

- Methods of Conducting Investigations Relating to the Maintenance or Increase of Soil Fertility. By E. B. Voorhees, D. Sc., Professor of Agriculture and Director of the Experiment Station, Rutgers Scientific School, the New Jersey College for the Benefit of Agriculture and the Mechanic Arts. Pp. 133-138.
- Experiments in Animal Breeding. By F. B. Mumford, M. S., Professor of Agriculture, and in Charge of Animal Breeding at the Experiment Station, University of Missouri. Pp. 138-142.
- Soil Fertility. By H. W. Wiley, Chemist, Bureau of Chemistry, U. S. Department of Agriculture. Pp. 142-146.
- Methods of Investigation Relating to the Breeding of Animals. By C. S. Plumb, D. S., Professor of Animal Husbandry, Ohio State University. Pp. 146-160.
- Crop Rotation in the Southern States as Influenced by Plant Diseases. By W. A. Orton, Bureau of Plant Industry, U. S. Department of Agriculture. Pp. 160-164.
- Notes on Cooperative Experiments. By F. L. Stevens, M. S., Ph. D., Professor of Biology and Biologist of the Experiment Station, the North Carolina College of Agriculture and Mechanic Arts. Pp. 164-166.
- The History of the Tobacco Wilt in Granville County, North Carolina. By F. L. Stevens, M. S., Ph. D., Professor of Biology and Biologist of the Experiment Station, the North Carolina College of Agriculture and Mechanic Arts. Pp. 166-168.
- Botany in the Agricultural Colleges. By L. H. Pammel, M. S., Ph. D., Professor of Botany and Botanist of the Experiment Station, Iowa State College of Agriculture and Mechanic Arts. Pp. 168-170.
- The Foundations of Agricultural Teaching. By H. Metcalf, Ph. D., Associate Professor of Botany and Bacteriology, Clemson Agricultural College. Pp. 170-172.
- Methods of Work and Some Results in Forest Insect Investigations. By A. D. Hopkins, Division of Entomology, U. S. Department of Agriculture. Pp. 180-182.
- Importance of Laboratory and Field Work in Economic Entomology and Record Devices. By E. P. Felt, State Entomologist, Albany, New York. Pp. 182-184.
- The New Jersey Ideal in the Study and Report Upon Injurious Insects. By J. B. Smith, D. Sc., Professor of Entomology and Entomologist of the Experiment Station, Rutgers Scientific School, the New Jersey College for the Benefit of Agriculture and the Mechanic Arts. Pp. 184-186.
- Cooperative Work in Economic Entomology. By C. M. Woodworth, M. S., Assistant Professor of Entomology and Entomologist of the Experiment Station, University of California. Pp. 186-189.
- The Necessity of Uniform Methods of Inspection and Treatment of Nursery Stock. By A. F. Burgess, State Entomologist, Columbus, Ohio. Pp. 189-192.

Approved:

JAMES WILSON,
Secretary of Agriculture.

JOS. A. ARNOLD,
Acting Editor and Chief.

✓ This circular will be sent regularly to all who apply for it.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *July 30, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1904.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

NEW PUBLICATIONS.

BULLETINS.

Report on the Habits of the Kelep, or Guatemalan Cotton-Boll-Weevil Ant. By O. F. Cook, Botanist in Charge of Investigations in Tropical Agriculture, Bureau of Plant Industry. Pp. 15. (Bulletin No. 49, Bureau of Entomology.) Price 5 cents.

General Index to Experiment Station Record, Vols. I to XII, 1889–1901, and to Experiment Station Bulletin No. 2. Pp. 671. Price 50 cents.

Agricultural Exports of the United States, 1851–1902. By Frank H. Hitchcock. Pp. 100. (Bulletin No. 34, Division of Foreign Markets.) Price 10 cents.

Forest Resources of Texas. By William L. Bray, Collaborator, Bureau of Forestry. Pp. 71, pls. 8, figs. 2, maps 3. (Bulletin No. 47, Bureau of Forestry.) Price 15 cents.

The Forests of the Hawaiian Islands. By William L. Hall, In Charge of Forest Extension, Bureau of Forestry. Pp. 29, pls. 8. (Bulletin No. 48, Bureau of Forestry.) Price 10 cents.

The Timber of the Edwards Plateau of Texas; Its Relation to Climate, Water Supply, and Soil. By William L. Bray, Collaborator, Bureau of Forestry. Pp. 30, frontispiece, pls. 5. (Bulletin No. 49, Bureau of Forestry.) Price 10 cents.

The Avocado in Florida; Its Propagation, Cultivation, and Marketing. By P. H. Rolfs, Pathologist, in Charge of Subtropical Laboratory. Pomological Investigations. Pp. 36, pls. 4, figs. 9. (Bulletin No. 61, Bureau of Plant Industry.) Price 5 cents.

Notes on Egyptian Agriculture. By George P. Foaden, B. Sc., Secretary of the Khedivial Agricultural Society, Cairo, Egypt. Vegetable Pathological and Physiological Investigations. Pp. 61, pls. 6, figs. 3. (Bulletin No. 62, Bureau of Plant Industry.) Price 10 cents.

Investigations of Rusts. By Mark Alfred Carleton, Cerealist, in Charge of Cereal Investigations. Vegetable Pathological and Physiological Investigations. Pp. 32, pls. 2. (Bulletin No. 63, Bureau of Plant Industry.) Price 10 cents.

The Commercial Cotton Crops of 1900-1901, 1901-1902, and 1902-1903. By James L. Watkins, of the Bureau of Statistics. Pp. 83. (Bulletin No. 28, Bureau of Statistics.) Price 5 cents.

REPRINTS.

Bulletin No. 124, Office of Experiment Stations. Irrigation Investigations in Utah. Congressional edition. Price \$1.10.

Bulletin No. 42, Bureau of Forestry. The Woodlot: A Handbook for Owners of Woodlands in Southern New England. Price 15 cents.

Bulletin No. 20, Bureau of Plant Industry. Manufacture of Semolina and Macaroni. Price 15 cents.

CIRCULARS.

NEW.

Definitions of Open and Close Seasons for Game. Pp. 8. (Circular No. 43, Biological Survey.)

Organization of the Bureau of Chemistry. Pp. 15. (Circular No. 14, Bureau of Chemistry.)

Results of Borax Experiment. By H. W. Wiley, M. D., Chief, Bureau of Chemistry. Pp. 27. (Circular No. 15, Bureau of Chemistry.)

Exhibit of Tree Planting on a Model Prairie Farm at the Louisiana Purchase Exposition. Pp. 8, fig. 1. (Circular No. 29, Bureau of Forestry.)

Monthly List of Publications, June, 1904. Pp. 6. (No. 495, Division of Publications.)

Crop Reporter. Vol. 6, No. 3. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 17-24.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 51, Office of Experiment Stations. List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers. Revised edition.

Circular No. 22, Bureau of Forestry, second revision. Practical Assistance to Tree Planters.

Report of Cooperative Work on the Dalican Titer Test. By L. M. Tolman, Associate Referee on Fats and Oils. Pp. 65-72. (From Bulletin No. 81, Bureau of Chemistry.)

Circular No. 23, Bureau of Forestry, second revision. Suggestions to Prospective Forest Students.

The Contamination of Public Water Supplies by Algæ. By George T. Moore, Physiologist in Charge of Laboratory of Plant Physiology, Bureau of Plant Industry. Pp. iv, 175-186. (From Yearbook of Department of Agriculture for 1902.) Reprint.

FARMERS' BULLETIN.

REPRINT.

No. 183.—Meat on the Farm: Butchering, Curing, and Keeping.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 5. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 207-254, figs. 3, charts 15. (W. B. No. 307.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (Nos. 16, 17, 18, and 19 for the month of July, 1904.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

Organization and Work of Agricultural Experiment Stations in the United States. By Dick J. Crosby, of the Office of Experiment Stations. Pp. 24, pls. 5. (Doc. 708, Office of Experiment Stations.)

Farmers' Institutes in the United States. By John Hamilton, Farmers' Institute Specialist. Pp. 20. (Doc. 711, Office of Experiment Stations.)

GEO. WM. HILL,
Editor and Chief.

Approved:
JAMES WILSON,
Secretary of Agriculture.



✓ This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *August 31, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1904.]

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NEW PUBLICATIONS.

BULLETINS.

Preparing Land for Irrigation and Methods of Applying Water. Prepared by the Agents of Irrigation Investigations. Pp. 84, pls. 7, figs. 33. (Bulletin No. 145, Office of Experiment Stations.) Price 15 cents.

Report on Drainage Investigations, 1903. By C. G. Elliott, Assistant, in Charge of Drainage Investigations. Pp. 62, pls. 5, figs. 12. (Bulletin No. 147, Office of Experiment Stations.) Price 10 cents.

Propagation and Marketing of Oranges in Porto Rico. By H. C. Henriksen, Assistant Horticulturist, Porto Rico Agricultural Experiment Station. Under the Supervision of Office Experiment Stations, U. S. Department of Agriculture. Pp. 24, pls. 6, figs. 4. (Bulletin No. 4, Porto Rico Agricultural Experiment Station.) Price 10 cents.

Same in Spanish. Price 10 cents.

Experiment Station Record. Vol. XV, No. 11. E. W. Allen, Ph. D., Editor. Pp. x, 1033–1140, pls. 2, figs. 2. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

REPRINTS.

Progress of the Beet Sugar Industry in the United States in 1903. Price 10 cents.

Bulletin No. 58, Bureau of Animal Industry. The Fat Testing of Cream by the Babcock Method. Price 5 cents.

Bulletin No. 59, Bureau of Animal Industry. The Farm Separator: Its Relation to the Creamery and to the Creamery Patron. Price 5 cents.

Bulletin No. 81, Bureau of Chemistry. Proceedings of the Twentieth Annual Convention of the Association of Official Agricultural Chemists Held at Washington, D. C., November 19, 20, and 21, 1903. Price 15 cents.

Bulletin No. 83, Bureau of Chemistry. Foods and Food Control. Part 1. Legislation During the Year ended July 1, 1903. Price 10 cents.

Bulletin No. 45, Division of Entomology. The Mexican Cotton Boll Weevil. Price 25 cents.

Bulletin No. 30, Division of Foreign Markets. Agricultural Imports of Germany, 1897-1901. Price 20 cents.

CIRCULARS.

NEW.

Scale of Points for Judging Cattle of Dairy Breeds. By Maj. Henry E. Alvord, Chief of the Dairy Division. Pp. 14. (Circular No. 48, Bureau of Animal Industry.)

United States and State Standards for Dairy Products, 1904. By Maj. Henry E. Alvord, Chief of the Dairy Division. Pp. 2. (Circular No. 49, Bureau of Animal Industry.)

Mycotic Stomatitis of Cattle. By Dr. John R. Mohler, Chief of the Pathological Division, Bureau of Animal Industry. Pp. 6. (Circular No. 51, Bureau of Animal Industry.)

Directory of State Officials and Organizations Concerned with the Protection of Birds and Game, 1904. By T. S. Palmer, Assistant in Charge of Game Preservation. Pp. 15. (Circular No. 44, Division of Biological Survey.)

The Useful Properties of Clay. By Allerton S. Cushman, Chemist, Division of Tests. Pp. 12. (Circular No. 17, Bureau of Chemistry.)

Suggestions to Importers of Food Products. By H. W. Wiley, Chief, Bureau of Chemistry. Pp. 16. (Circular No. 18, Bureau of Chemistry.)

Methods for the Detection of Renovated Butter. [Cooperative Work, Association of Official Agricultural Chemists, 1904.] By G. E. Patrick, Referee on Dairy Products, A. O. A. C., Chief, Dairy Laboratory. (Circular No. 19, Bureau of Chemistry.)

Exhibit of Forest Planting in Woodlots at the Louisiana Purchase Exposition. Pp. 11. (Circular No. 30, Bureau of Forestry.)

Exhibit of a Forest Nursery at the Louisiana Purchase Exposition. Pp. 7, figs. 2. (Circular No. 31, Bureau of Forestry.)

Monthly List of Publications, July, 1904. Pp. 3. (No. 496, Division of Publications.)

Crop Reporter. Vol. 6, No. 4. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 25-32.

A three-column quarto publication devoted to agricultural statistics.

Supplement to Crop Reporter, Vol. 3, No. 12. Pp. 4.

REPRINTS.

Circular No. 8, Bureau of Animal Industry. Injuries to Cattle from Swallowing Pointed Objects.

Circular No. 19, Bureau of Animal Industry. Factory Cheese and How it is Made.

Circular No. 35, Bureau of Animal Industry. Treatment for Roundworms in Sheep, Goats, and Cattle.

Circular No. 13, second series, Division of Entomology. Mosquitoes and Fleas.

Circular No. 34, second series. House Ants (*Monomorium pharaonis*, et al.).

Circular No. 21, Bureau of Forestry, revised edition. Practical Assistance to Farmers, Lumbermen, and Others in Handling Forest Lands.

The Respiration Calorimeter at the Pennsylvania Experiment Station. By H. P. Armsby, Ph. D., LL. D., Director Pennsylvania Experiment Station. Pp. ii, 1037-1050, pls. 4, figs. 2. (Reprint from Experiment Station Record, vol. xv, No. 11.)

How Birds Affect the Orchard. (From Yearbook of Department of Agriculture for 1900.) Reprint.

Bacteria and the Nitrogen Problem. (From Yearbook of Department of Agriculture for 1902.) Reprint.

Relation of Cold Storage to Commercial Apple Culture. By G. Harold Powell, Pomologist in Charge of Fruit Storage Investigations, Bureau of Plant Industry. Pp. ii, 225-238, pls. 6. (From Yearbook of Department of Agriculture for 1903.)

FARMERS' BULLETINS.

Canned Fruit, Preserves, and Jellies: Household Methods of Preparation. By Maria Parloa. Prepared under the supervision of the Office of Experiment Stations, A. C. True, Director. Pp. 32, figs. 4. (Farmers' Bulletin No. 203.)

The Cultivation of Mushrooms. By B. M. Duggar, Professor of Botany in the University of Missouri; Collaborator, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 24, figs. 10. (Farmers' Bulletin No. 204.)

REPRINTS.

No. 22.—The Feeding of Farm Animals. Revised edition.

No. 24.—Hog Cholera and Swine Plague.

No. 28.—Weeds; And How to Kill Them. Revised edition.

No. 29.—Souring of Milk and Other Changes in Milk Products.

No. 31.—Alfalfa, or Lucern.

No. 35.—Potato Culture.

No. 39.—Onion Culture.

No. 41.—Fowls: Care and Feeding.

No. 42.—Facts About Milk.

No. 44.—Commercial Fertilizers: Composition and Use.

No. 49.—Sheep Feeding.

No. 51.—Standard Varieties of Chickens.

No. 52.—The Sugar Beet: Culture, Seed Development, Manufacture, and Statistics.

No. 55.—The Dairy Herd: Its Formation and Management.

No. 57.—Butter Making on the Farm.

No. 59.—Bee Keeping.

No. 62.—Marketing Farm Produce.

No. 64.—Ducks and Geese: Standard Breeds and Management.

No. 66.—Meadows and Pastures: Formation and Cultivation in the Middle Eastern States.

No. 74.—Milk as Food.

No. 87.—Experiment Station Work—VIII.

No. 89.—Cowpeas.

No. 91.—Potato Diseases and Their Treatment.

No. 94.—The Vegetable Garden.

No. 95.—Good Roads for Farmers.

No. 106.—Breeds of Dairy Cattle.

No. 107.—Experiment Station Work—XIII.

No. 121.—Beans, Peas, and Other Legumes as Food. (Revised edition.)

No. 126.—Practical Suggestions for Farm Buildings.

No. 127.—Important Insecticides: Directions for Their Preparation and Use. (Revised edition.)

- No. 128.—Eggs and Their Uses as Food.
 No. 136.—Earth Roads.
 No. 141.—Poultry Raising on the Farm.
 No. 147.—Winter Forage Crops for the South.
 No. 170.—Principles of Horse Feeding.
 No. 181.—Pruning.
 No. 185.—Beautifying the Home Grounds.
 No. 186.—Experiment Station Work—XXIII.
 No. 187.—Drainage of Farm Lands.
 No. 189.—Information Concerning the Mexican Cotton Boll Weevil.
 No. 190.—Experiment Station Work—XXIV.
 No. 192.—Barnyard Manure. (A revision of Farmers' Bulletin No. 21.)
 No. 194.—Alfalfa Seed.
 No. 195.—Annual Flowering Plants.
 No. 199.—Corn Growing.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Meteorological Chart of the Great Lakes. No. 1. 1904. By Alfred J. Henry and Norman B. Conger. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 30, figs. 6. (W. B. No. 309.) Price 10 cents.

Climate: Its Physical Basis and Controlling Factors. By Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 19. Bulletin No. 34. (W. B. No. 311.)

Monthly Weather Review. Vol. XXXII, No. 6. June, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 255-301, figs. 5, charts 13. (W. B. No. 313.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (Nos. 20, 21, 22, 23, and 24 for the month of August, 1904.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

Experiment Station Work. Vol. II, No. 6. Compiled from the Publications of the Agricultural Experiment Stations. Prepared in the Office of Experiment Stations. A. C. True, Director. Pp. iv, 141-168, figs. 9.

Investigations on the Nutrition of Man in the United States. By C. F. Langworthy, Ph. D., and R. D. Milner, Ph. B., of the Office of Experiment Stations.

FROM BULLETIN NO. 142, OFFICE OF EXPERIMENT STATIONS.

Methods of Conducting Investigations Relating to Maintenance or Increase of Soil Fertility.

Cooperative Work in Economic Entomology.

The New Jersey Ideal in the Study and Report upon Injurious Insects.

GEO. WM. HILL,

Editor and Chief.

Approved:

WILLIS L. MOORE,

Acting Secretary of Agriculture.

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P96M

This circular will be sent regularly to all who apply for it.

No. 501

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *September 30, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1904.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

NEW PUBLICATIONS.

BULLETINS.

The Relation of Bacteria to the Flavors of Cheddar Cheese. By Lore A. Rogers, Expert in Dairy Bacteriology, Bureau of Animal Industry. Pp. 38. (Bulletin No. 62, Bureau of Animal Industry.) Price 5 cents.

Irrigation in Northern Italy. Part I. By Elwood Mead, Chief of Irrigation Investigations. Pp. 100, frontispiece, pls. 17, figs. 14. (Bulletin No. 144, Office of Experiment Stations.) Price 20 cents.

Current Wheels: Their Use in Lifting Water for Irrigation. Prepared in the Office of Experiment Stations, Irrigation Investigations. Pp. 38, pls. 4, figs. 21. (Bulletin No. 146, Office of Experiment Stations.) Price 10 cents.

Report on Irrigation Investigations in Humid Sections of the United States in 1903. Under the direction of Elwood Mead, Chief of Irrigation Investigations. Pp. 45, pls. 3. (Bulletin No. 148, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record. Vol. XV, No. 12. E. W. Allen, Ph. D., Editor. Pp. xviii, 1141–1247. Index Number. Price 10 cents.

Experiment Station Record. Vol. XVI, No. 1. E. W. Allen, Ph. D., Editor. Pp. xi, 1–116, figs. 5. Price 10 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

The Basket Willow. By William F. Hubbard, Forest Assistant, Bureau of Forestry. With a Chapter on Insects Injurious to the Basket Willow, by F. H. Chittenden, Entomologist in Charge of Breeding Experiments, Bureau of Entomology. Pp. 100, frontispiece, pls. 7, figs. 27. (Bulletin No. 46, Bureau of Forestry.) Price 15 cents.

Forest Planting in Western Kansas. By Royal S. Kellogg, Forest Agent, Bureau of Forestry. Pp. 52, pls. 7, map. (Bulletin No. 52, Bureau of Forestry.) Price 10 cents.

Chestnut in Southern Maryland. By Raphael Zon, Forest Assistant, Bureau of Forestry. Pp. 31, pls. 5. (Bulletin No. 53, Bureau of Forestry.) Price 10 cents.

Accessions to the Department Library. April-June, 1904. Pp. 56. (Library Bulletin No. 51.) Price 5 cents.

Soil Survey of the Lufkin Area, Texas. By W. Edward Hearn and Party. Pp. 14, fig. 1, map. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Congressional publication.

REPRINTS.

Bulletin No. 71, Bureau of Chemistry.—A Study of Cider Making in France, Germany, and England, with Comments and Comparisons on American Work. Price 20 cents.

Bulletin No. 38, new series, revised edition, Bureau of Entomology.—Some Miscellaneous Results of the Work of the Division of Entomology. VI. Price 10 cents.

Bulletin No. 47, Bureau of Entomology, revised edition.—Catalogue of the Exhibit of Economic Entomology at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. Price 10 cents.

Bulletin No. 28, revised edition, Office of Experiment Stations.—The Chemical Composition of American Food Materials. Price 5 cents.

Bulletin No. 30, Bureau of Plant Industry.—Budding the Pecan. Price 10 cents.

CIRCULARS.

NEW.

Information for Importers of Animals for Breeding Purposes. By George M. Rommel, B. S. A. Pp. 16. (Circular No. 50, Bureau of Animal Industry.)

Officials Charged with the Enforcement of Food Laws in the United States and Canada. Pp. 25. (Circular No. 16, Bureau of Chemistry.)

A New Parasite (*Strongylus quadriradiatus* n. sp.) Found in the Pigeon. Preliminary Report. By Earle C. Stevenson, B. Sc., M. A., of the Zoological Laboratory. (Circular No. 47, Bureau of Animal Industry.)

Monthly List of Publications, August, 1904. Pp. 4. (No. 497, Division of Publications.)

Crop Reporter. Vol. 6, No. 5. Published by the U. S. Department of Agriculture under the supervision of the Statistician.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 27, revised, Division of Botany.—Canada Thistle (*Cordus arvensis* (L.) Robs.)

Circular No. 23, second revision, Bureau of Animal Industry.—Directions for the Use of Blackleg Vaccine.

Circular No. 14, Bureau of Chemistry.—Organization of the Bureau of Chemistry.

Circular No. 34, Office of Experiment Stations.—Rules and Apparatus for Seed Testing.

The Growing of Long-Staple Upland Cotton. By Herbert J. Webber, Physiologist in Charge of Plant-Breeding Laboratory, Bureau of Plant Industry. Pp. iii, 121-136, pls. 5. (From Yearbook of Department of Agriculture for 1903.)

Promising New Fruits. By William A. Taylor, Pomologist in Charge of Field Investigations, Bureau of Plant Industry. Pp. iii, 267-278, pls. 7. (From Yearbook of Department of Agriculture for 1903.)

A Model Farm. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. iii, 363-370, pls. 2. (From Yearbook of Department of Agriculture for 1903.)

Improvement of Cotton by Seed Selection. By Herbert J. Webber, Physiologist in Charge of Plant Breeding Laboratory. (From Yearbook of Department of Agriculture for 1902.)

Improvement of Corn by Seed Selection. (From Yearbook of Department of Agriculture for 1902.)

Annual Report of the Alaska Agricultural Experiment Stations for 1903. By George C. Georgeson, Special Agent in Charge. Pp. iv, 313-390, pls. 8. (From Annual Report of Experiment Stations for 1903.)

FARMERS' BULLETINS.

Pig Management. By George M. Rommel, B. S. A., Expert in Animal Husbandry, Bureau of Animal Industry. Pp. 40, figs. 22. (Farmers' Bulletin No. 205.)

Game Laws for 1904. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer, Henry Oldys, and R. W. Williams, jr., Assistants, Biological Survey. Pp. 64. (Farmers' Bulletin No. 207.)

REPRINTS.

No. 22.—The Feeding of Farm Animals. Revised edition.

No. 25.—Peanuts: Culture and Uses.

No. 32.—Silo and Silage. Revised edition.

No. 34.—Meats: Composition and Cooking.

No. 36.—Cotton Seed and Its Products.

No. 39.—Onion Culture.

No. 51.—Standard Varieties of Chickens.

No. 52.—The Sugar Beet: Culture, Seed Development, Manufacture, and Statistics.

No. 54.—Some Common Birds in Their Relation to Agriculture.

No. 56.—Experiment Station Work—I.

No. 61.—Asparagus Culture.

No. 63.—Care of Milk on the Farm.

No. 73.—Experiment Station Work—IV.

No. 81.—Corn Culture in the South.

No. 84.—Experiment Station Work—VII.

No. 86.—Thirty Poisonous Plants of the United States.

No. 92.—Experiment Station Work—IX.

No. 96.—Raising Sheep for Mutton.

No. 98.—Suggestions to Southern Farmers.

No. 100.—Hog Raising in the South.

No. 102.—Southern Forage Plants.

No. 103.—Experiment Station Work—XI.

No. 111.—The Farmer's Interest in Good Seed.

No. 112.—Bread and the Principles of Bread Making.

No. 118.—Grape Growing in the South.

No. 124.—Experiment Station Work—XVII.

- No. 129.—Sweet Potatoes.
 No. 132.—The Principal Insect Enemies of Growing Wheat.
 No. 141.—Poultry on the Farm.
 No. 143.—Conformation of Beef and Dairy Cattle.
 No. 148.—Celery Culture.
 No. 149.—Experiment Station Work—XX.
 No. 154.—The Home Fruit Garden: Preparation and Care.
 No. 161.—Practical Suggestions for Fruit Growers.
 No. 162.—Experiment Station Work—XXI.
 No. 166.—Cheese Making on the Farm.
 No. 173.—A Primer of Forestry.
 No. 179.—Horseshoeing.
 No. 182.—Poultry as Food.
 No. 183.—Meat on the Farm: Butchering, Curing, and Keeping.
 No. 184.—Marketing Live Stock.
 No. 187.—Drainage of Farm Lands.
 No. 188.—Weeds Used in Medicine.
 No. 192.—Barnyard Manure. (A Revision of Farmers' Bulletin No. 21.)
 No. 193.—Experiment Station Work—XXV.
 No. 196.—Usefulness of the American Toad.
 No. 198.—Strawberries.
 No. 199.—Corn Growing.
 No. 200.—Turkeys: Standard Varieties and Management.
 No. 203.—Canned Fruits, Preserves, and Jellies: Household Methods of Preparation.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXX, No. 7. July, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 303-352, figs. 2, charts 10. (W. B. No. 315.) Price 20 cents. \$2 per year.

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (Nos. 25, 26, 27, and 28 for the month of September, 1904.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

Irrigation and Drainage Investigations of the Office of Experiment Stations, U. S. Department of Agriculture. By R. P. Teele, Editorial Assistant, Office of Experiment Stations. Pp. 23, pls. 2, figs. 5. (Doc. 723.)

Annual Report of the Alaska Agricultural Experiment Stations for 1902. By C. C. Georgeson, Special Agent in Charge. (From Annual Report of Office of Experiment Stations, 1902.)

The Respiration Calorimeter at the Pennsylvania Experiment Station. (From Experiment Station Record, Vol. XV, No. 11.)

Approved:

WILLIS L. MOORE,

Acting Secretary of Agriculture.

GEO. WM. HILL,
Editor and Chief.

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P9610
This circular will be sent regularly to all who apply for it.

No. 504.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *October 31, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1904.]

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NEW PUBLICATIONS.

BULLETINS.

State Stock Breeders' Associations. By George M. Rommel, B. S. A., Expert in Animal Husbandry, Bureau of Animal Industry. Pp. 53. (Bulletin No. 64, Bureau of Animal Industry.) Price 5 cents.

Arsenic in Papers and Fabrics. By J. K. Haywood, Chief, Insecticide and Agricultural Water Laboratory, with the Collaboration of H. J. Warner, Assistant Chemist. Pp. 53. (Bulletin No. 86, Bureau of Chemistry.) Price 5 cents.

The Cultivation of the Australian Wattle. By David G. Fairchild, Agricultural Explorer. Seed and Plant Introduction and Distribution. Pp. 7, pls. 3. (Bulletin No. 51, Part IV, Bureau of Plant Industry.) Price 5 cents.

Legal and Customary Weights Per Bushel of Seeds. By Edgar Brown, Botanist in Charge of Seed Laboratory. Botanical Investigations and Experiments. Pp. 10. (Bulletin No. 51, Part V, Bureau of Plant Industry.) Price 5 cents.

Range Investigations in Arizona. By David Griffiths, Assistant in Charge of Range Investigations. Grass and Forage Plant Investigations. Pp. 62, pls. 10, fig. 1. (Bulletin No. 67, Bureau of Plant Industry.) Price 15 cents.

The Commercial Status of Durum Wheat. By Mark Alfred Carleton, Cerealist in Charge of Cereal Investigations, and Joseph S. Chamberlain, Physiological Chemist, Cereal Investigations. Vegetable Pathological and Physiological Investigations. Pp. 70, pls. 5, fig. 1. (Bulletin No. 70, Bureau of Plant Industry.) Price 10 cents.

Investigations in Soil Fertility. By Milton Whitney and F. K. Cameron. Pp. 48, pls. 4, figs. 7. (Bulletin No. 23, Bureau of Soils.) Price 5 cents.

Methods and Routes for Exporting Farm Products. By Edward G. Ward, jr., Expert in Transportation Statistics. Pp. 62. (Bulletin No. 29, Bureau of Statistics.) Price 5 cents.

REPRINTS.

- Bulletin No. 56, Bureau of Animal Industry.—Digestion Experiments with Poultry. Price 20 cents.
- Bulletin No. 3, New Series, Division of Entomology.—The San Jose Scale: Its Occurrences in the United States, with a Full Account of Its Life History and the Remedies to be Used Against It. Price 10 cents.
- Bulletin No. 136, Office of Experiment Stations.—Experiments on the Metabolism of Matter and Energy in the Human Body, 1900–1902. (Corrected to August 10, 1904.) Price 20 cents.
- General Index to Experiment Station Record, Vols. I to XII, 1889–1901 and to Experiment Station Bulletin No. 2. Price 50 cents.
- Bulletin No. 13, revised edition, Division of Forestry.—The Timber Pines of the Southern United States. Price 35 cents.
- Bulletin No. 50, Bureau of Forestry.—Cross-Tie Forms and Rail Fastenings, with Special Reference to Treated Timbers. Price 15 cents.
- Bulletin No. 64, Bureau of Plant Industry.—A Method of Destroying or Preventing the Growth of Algæ and Certain Pathogenic Bacteria in Water Supplies. Price 5 cents.

CIRCULARS.

NEW.

- A Chemical Examination of Various Tubercle Bacilli. By E. A. De Schweinitz, Ph. D., M. D., Chief of Biochemic Division, Bureau of Animal Industry, and M. Dorset, M. D., Assistant Chief of Biochemic Division, Bureau of Animal Industry. Pp. 7. (Circular No. 52, Bureau of Animal Industry.)
- The Government's Importation of Camels: A Historical Sketch. By Charles C. Carroll, A. M., Editorial Office, Bureau of Animal Industry. Pp. 19. (Circular No. 53, Bureau of Animal Industry.)
- Reindeer and Caribou. By C. C. Georgeson, M. S., Special Agent in Charge of Alaska Agricultural Experiment Stations, Office of Experiment Stations. Pp. 14, pls. 6. (Circular No. 55, Bureau of Animal Industry.)
- Facts Concerning the History, Commerce, and Manufacture of Butter. By Harry Hayward, M. S., Assistant Chief of Dairy Division, Bureau of Animal Industry. Pp. 24. (Circular No. 56, Bureau of Animal Industry.)
- Invisible Microorganisms. By M. Dorset, M. D., Assistant Chief of Biochemic Division, Bureau of Animal Industry. Pp. 18. (Circular No. 57, Bureau of Animal Industry.)
- Pulmonary Mycosis of Birds—With Report of a Case in a Flamingo. By John R. Mohler, A. M., V. M. D., Chief of Pathological Division, Bureau of Animal Industry, and John S. Buckley, D. V. S., Assistant in Pathological Division of Bureau of Animal Industry. Pp. 17, pls. 5. (Circular No. 58, Bureau of Animal Industry.)
- Influence of Formaldehyde on the Digestive Enzymes. By T. M. Price, Ph. D., Assistant in Biochemic Division, Bureau of Animal Industry. Pp. 8. (Circular No. 59, Bureau of Animal Industry.)
- Certain Variations in the Morphology of Tubercle Bacilli of Bovine Origin. By C. N. McBryde, M. D., Assistant in Biochemic Division, Bureau of Animal Industry. Pp. 5, pls. 2. (Circular No. 60, Bureau of Animal Industry.)
- The Desirability of Phosphates as an Addition to Culture Media for Tubercle Bacilli. By M. Dorset, M. D., Assistant Chief of Biochemic Division, Bureau of Animal Industry. Pp. 3, pls. 2. (Circular No. 61, Bureau of Animal Industry.)
- The Most Important Step in the Cultural System of Controlling the Boll Weevil. By W. D. Hunter, in Charge of Cotton Boll Weevil Investigations. Pp. 7. (Circular No. 56, Bureau of Entomology.)
- Monthly List of Publications, September, 1904. Pp. 4. (No. 501, Division of Publications.)
- Organization of Department of Agriculture, 1904–1905. Pp. 27. (Circular No. 1, Division of Publications.) Revised to September 1, 1904.

It shows the organization of the several branches of the Department as furnished by the Chiefs of the Bureaus, Divisions, and Offices.

Crop Reporter. Vol. 6, No. 6. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 41-48.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 31, Bureau of Animal Industry.—Blackleg: Its Nature, Cause, and Prevention.

Circular No. 13, Bureau of Soils.—The Work of the Bureau of Soils.

Birds as Weed Destroyers. (From Yearbook of Department of Agriculture for 1898.) (Reprint.)

How Birds Affect the Orchard. (From Yearbook of Department of Agriculture for 1900.) (Reprint.)

Audubon Societies in Relation to the Farmer. (From Yearbook of Department of Agriculture for 1902.) (Reprint.)

Cultivation and Fertilization of Peach Orchards. (From Yearbook of Department of Agriculture for 1902.)

Some new Facts about the Migration of Birds. (From Yearbook of Department of Agriculture for 1903.) (Reprint.)

Relation of Sugar Beets to General Farming. (From Yearbook of Department of Agriculture for 1903.) (Reprint.)

Soil Survey of Miller County, Arkansas. By J. O. Martin and E. P. Carr. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 18, fig. 1. Map. Congressional Publication.

Soil Survey of the Russell Area, Kansas. By A. W. Mangum and J. A. Drake. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 20, fig. 1. Map. Congressional Publication.

Soil Survey of the New Orleans Area, Louisiana. By Thomas D. Rice and Lewis Griswold. [Advance sheets—Field Operations of the Bureau of Soils.] Pp. 25, fig. 1. Map. Congressional Publication.

Soil Survey of Mason County, Kentucky. By R. T. Avon Burke. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 19, fig. 1. Map. Congressional Publication.

Soil Survey of the Jacksonville Area, Texas. By W. Edward Hearn and James L. Burgess. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 15, fig. 1. Map. Congressional Publication.

Soil Survey of the Woodville Area, Texas. By J. E. Lapham and Party. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 14, fig. 1. Map. Congressional Publication.

Soil Survey of the Dover Area, Delaware. By F. E. Bonsteel and O. L. Ayrs. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 26, fig. 1. Map. Congressional Publication.

Soil Survey of the Campobello Area, South Carolina. By A. W. Mangum and Aldert S. Root. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 21, fig. 1. Map. Congressional Publication.

Soil Survey of the Nacogdoches Area, Texas. By W. Edward Hearn and James L. Burgess. [Advance sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 17, fig. 1. Map. Congressional Publication.

Soil Survey of Davidson County, Tennessee. By William G. Smith and Hugh H. Bennett. [Advance sheets—Field Operations of the Bureau of Soils.] Pp. 17, fig. 1. Map. Congressional Publication.

FARMERS' BULLETINS.

Milk Fever: Its Simple and Successful Treatment. By John R. Mohler, V. M. D., Chief of Pathological Division, Bureau of Animal Industry. Pp. 16, figs. 2. (Farmers' Bulletin No. 206.)

Describes a new method for the treatment of this disease.

Controlling the Boll Weevil in Cotton Seed and at Ginneries. Pp. 32, fig. 1. (Farmers' Bulletin No. 209.)

Treats of cotton seed and ginneries as factors in the spread of the boll weevil, and suggests means to lessen the danger from these causes.

REPRINTS.

- No. 33.—Peach Growing for Market.
 No. 38.—Spraying for Fruit Diseases.
 No. 48.—The Manuring of Cotton.
 No. 68.—The Black Rot of the Cabbage.
 No. 71.—Some Essentials in Beef Production.
 No. 79.—Experiment Station Work—VI.
 No. 80.—The Peach Twig-Borer: An Important Enemy of Stone Fruits.
 No. 85.—Fish as Food.
 No. 94.—The Vegetable Garden.
 No. 97.—Experiment Station Work—X.
 No. 109.—Farmers' Reading Courses.
 No. 110.—Rice Culture in the United States.
 No. 113.—The Apple and How to Grow It.
 No. 119.—Experiment Station Work—XV.
 No. 133.—Experiment Station Work—XVIII.
 No. 134.—Tree Planting on Rural School Grounds.
 No. 137.—The Angora Goat.
 No. 142.—Principles of Nutrition and Nutritive Value of Food. (Revised edition.)
 No. 146.—Insecticides and Fungicides: Chemical Composition and Effectiveness of Certain Preparations.
 No. 150.—Clearing New Land.
 No. 152.—Scabies of Cattle.
 No. 169.—Experiment Station Work—XXII.
 No. 177.—Squab Raising. (Revised May, 1904.)
 No. 179.—Horseshoeing.
 No. 183.—Meat on the Farm: Butchering, Curing, and Keeping.
 No. 185.—Beautifying the Home Grounds.
 No. 191.—The Cotton Bollworm: An Account of the Insect, with Results of Experiments in 1903.
 No. 194.—Alfalfa Seed.
 No. 199.—Corn Growing.
 No. 201.—The Cream Separator on Western Farms.
 No. 202.—Experiment Station Work—XXVI.
 No. 203.—Canned Fruits, Preserves, and Jellies: Household Methods of Preparation.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

- Invariability of our Winter Climate. By Wm. B. Stockman, District Forecaster, in Charge of Division of Meteorological Records. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 5. (W. B. No. 312.)
 On the General Circulation of the Atmosphere in Middle and High Latitudes. By W. N. Shaw, F. R. S., Secretary of the Meteorological Council. Pp. 13, figs. 4. (W. B. No. 314.)
 Studies on the Circulation of the Atmospheres of the Sun and of the Earth. By Frank H. Bigelow, M. A., L. H. D., Professor of Meteorology. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. iv, 44, figs. 88. (Reprints from Monthly Weather Review, October and November, 1903, and January, February, April, May, and June, 1904.) (W. B. No. 316.)
 Monthly Weather Review. Vol. XXXII, No. 8. August, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 353-400, figs. 4, charts 13. (W. B. No. 317.) Price 20 cents. \$2 per year.

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (No. 29 for the month of October, 1904.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

- New Live Stock Building at the Minnesota College of Agriculture. (From Experiment Station Record, Vol. XVI, No. 1.)
 Insects Injurious to the Basket Willow. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments, Bureau of Entomology. Pp. 63-80, figs. 16. (From Bulletin No. 46, Bureau of Forestry.)
 The Principal Injurious Insects of 1903. (From Yearbook of Department of Agriculture for 1903.)

GEO. WM. HILL,
Editor and Chief.

Approved:

WILLIS L. MOORE,
Acting Secretary of Agriculture.

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P96M

This circular will be sent regularly to all who apply for it.

No. 506.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *November 30, 1904.*

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1904.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

NEW PUBLICATIONS.

BULLETINS.

Report of the Secretary of Agriculture. 1904. Preliminary. Pp. 115.

Twentieth Annual Report of the Bureau of Animal Industry for the Year 1903. Pp. 618, pls. 22. Cloth. Price 50 cents.

CONTENTS.—Report of the Chief of the Bureau—Report of the work against sheep scab in 1903—Pathological report on a case of rabies in a woman—Spread of tuberculosis among healthy cattle upon exposure to tuberculous cattle—Some observations on the tuberculosis of animals—Bovine tuberculosis affecting the public health. A chemical examination of various tubercle bacilli—The desirability of phosphates as an addition to culture media for tubercle bacilli. Certain variations in the morphology of tubercle bacilli of bovine origin—Influence of formaldehyde on the digestive enzymes—Pulmonary mycosis of birds, with report of a case in a flamingo—Invisible microorganisms—New facts concerning the etiology of hog cholera—Infectious and contagious diseases of farm animals and their effect on American agriculture—Facts concerning the history, commerce, and manufacture of butter—The cold curing of cheese—Some details of pig management—A review of some experimental work in pig feeding—Growth of the cattle industry in Cuba—A plan for the improvement of American breeding stock—Information concerning common goats—Meat on the farm—Bacon curing on the farm—Reindeer and caribou—The Government's importation of camels: a historical sketch—Contagious diseases of animals in foreign countries—Imports of meat, meat products, eggs, and dairy products into the United Kingdom—Imports and exports of animals and animal products—Farm animals in 1903—Live stock associations and the markets—Rules and regulations of the Bureau of Animal Industry in 1903.

This is a Congressional publication and but a limited number is assigned to the Department, which is quite insufficient for its needs. The principal distribution is made by Senators, Representatives, and Delegates in Congress.

The Score Card in Stock Judging at Agricultural Colleges. By George M. Rommel, B. S. A., Expert in Animal Husbandry, Bureau of Animal Industry. Pp. 124, pls. 16, figs. 11. (Bulletin No. 61, Bureau of Animal Industry.) Price 25 cents.

- The Poultry and Egg Industry of Leading European Countries. By Andrew Fossum, Ph. D., Editorial Office, Bureau of Animal Industry. Pp. 79. (Bulletin No. 65, Bureau of Animal Industry.) Price 5 cents.
- Distribution and Migration of North American Warblers. By Wells W. Cooke, Assistant, Biological Survey. Pp. 142. (Bulletin No. 18, Division of Biological Survey.) Price 10 cents.
- Hunting Licenses: Their History, Objects, and Limitations. By T. S. Palmer, Assistant in Charge of Game Preservation. Pp. 72, pls. 7. (Bulletin No. 19, Biological Survey.) Price 10 cents.
- North American Fauna No. 24. A Biological Reconnaissance of the Base of the Alaska Peninsula. By Wilfred H. Osgood, Assistant, Biological Survey. Prepared under the direction of Dr. C. Hart Merriam, Chief of Division of Biological Survey. Pp. 86, pls. 7. Price 10 cents.
- The Cementing Power of Road Materials. By Logan Waller Page, Chief, Division of Tests, and Allerton S. Cushman, Chemist, Division of Tests. Pp. 24, pl. 1, figs. 6. (Bulletin No. 85, Bureau of Chemistry.) Price 5 cents.
- Chemical Composition of Some Tropical Fruits and Their Products. I. A Study of Cuban Fruits. II. The Composition of Fresh and Canned Pineapples. By Ed. Mackay Chace, L. M. Tolman, and L. S. Munson, Assistant Chemists, Food Laboratory. Pp. 38. (Bulletin No. 87, Bureau of Chemistry.) Price 5 cents.
- The Chemical Composition of Apples and Cider. I. The Composition of Apples in Relation to Cider and Vinegar Production. II. The Composition of Cider as Determined by Dominant Fermentation with Pure Yeasts. By Wm. B. Alwood, Special Agent, U. S. Department of Agriculture, and Mycologist of the Virginia Agricultural Experiment Station. R. J. Davidson, Special Agent, U. S. Department of Agriculture, and Chemist of the Virginia Agricultural Experiment Station. W. A. P. Moncure, Assistant Mycologist, Virginia Agricultural Experiment Station. Pp. 46. (Bulletin No. 88, Bureau of Chemistry.) Price 5 cents.
- Studies of the Food of Maine Lumbermen. By C. D. Woods, Director, Maine Agricultural Experiment Station, and E. R. Mansfield, Assistant Chemist, Maine Agricultural Experiment Station. Pp. 60. (Bulletin No. 149, Office of Experiment Stations.) Price 10 cents.
- Dietary Studies at the Government Hospital for the Insane, Washington, D. C. By H. A. Pratt and R. D. Milner. Pp. 170, pls. 2. (Bulletin No. 150, Office of Experiment Stations.) Price 15 cents.
- Experiment Station Record. Vol. XVI, No. 2. E. W. Allen, Ph. D., Editor. Pp. x, 117-218.
- Experiment Station Record. Vol. XVI, No. 3. E. W. Allen, Ph. D., Editor. Pp. x, 219-312. (No single copies of Vol. XVI sold.)
- The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.
- NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Accessions to the Department Library. July–September, 1904. Pp. 45.
(Library Bulletin No. 52.) Price 5 cents.

The Centrifugal Method of Mechanical Soil Analysis. By Lyman J. Briggs, F. O. Martin, and J. R. Pearce. Pp. 38, pls. 2, figs. 7.
(Bulletin No. 24, Bureau of Soils.) Price 10 cents.

CIRCULARS.

NEW.

A Plan for the Improvement of American Breeding Stock. By George M. Rommel, B. S. A., Expert in Animal Husbandry, Bureau of Animal Industry. Pp. 10. (Circular No. 62, Bureau of Animal Industry.)

Monthly List of Publications, October, 1904. Pp. 4. (No. 504, Division of Publications.)

Crop Reporter. Vol. 6, No. 7. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 49–56.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS AND ADVANCE SHEETS.

Circular No. 53, Bureau of Animal Industry. The Government's Importation of Camels: A Historical Sketch.

Circular No. 12, second series, Division of Entomology. The Hessian Fly.

Circular No. 52, second edition, Division of Entomology. The Lime, Sulphur, and Salt Wash.

Circular No. 56, Bureau of Entomology. The Most Important Step in the Cultural System of Controlling the Boll Weevil.

Circular No. 23, revised edition, Office of Experiment Stations. Key to Subject Index of Experiment Station Literature.

Circular No. 45, Office of Experiment Stations. Fifth Report of Committee on Methods of Teaching Agriculture.

Circular No. 46, revised, Office of Experiment Stations. The Functions and Uses of Food.

Circular No. 49, Office of Experiment Stations. Secondary Courses in Agriculture.

Circular No. 56, Office of Experiment Stations. Constitution of the Association of American Agricultural Colleges and Experiment Stations, as Amended at the Seventeenth Annual Convention of the Association, Washington, D. C., November 17–19, 1903.

Circular No. 37, Office of Public Road Inquiries. The Railroads and the Wagon Roads.

The Selection of Materials for Macadam Roads. (From Yearbook of Department of Agriculture for 1900.) Reprint.

The Adulteration of Drugs. (From Yearbook of Department of Agriculture for 1903.) Reprint.

Soil Survey of the Fargo Area, North Dakota. By Thomas A. Caine. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 29, fig. 1. Map. Congressional Publication.

Soil Survey of the Lockhaven Area, Pennsylvania. By J. O. Martin. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 18, fig. 1. Map. Congressional Publication.

Soil Survey of McLean County, Illinois. By George N. Coffey, C. W. Ely, and Charles J. Mann, assisted by R. C. Lloyd, Clifford Willis, A. F. Kidder, G. A. Crosthwaite, and G. H. Eidman, of the Illinois Experiment Station. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 25, fig. 1. Map. Congressional Publication.

Soil Survey of the Ashtabula Area, Ohio. By J. O. Martin and E. P. Carr. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 16, fig. 1. Map. Congressional Publication.

Soil Survey of Worcester County, Maryland. By F. E. Bonsteel, and William T. Carter, jr. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 29, fig. 1. Map. Congressional Publication.

Soil Survey of the Norfolk Area, Virginia. By J. E. Lapman. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 24, fig. 1. Map. Congressional Publication.

Soil Survey of the Syracuse Area, New York. By F. E. Bonsteel, William T. Carter, jr., and O. L. Ayrs. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 31, fig. 1. Map. Congressional Publication.

Soil Survey of the Connecticut Valley. By Elmer O. Fippin. (Advance Sheets—Field Operations of the Bureau of Soils, 1903.) Pp. 27, fig. 1. Map. Congressional Publication.

Determination of Effect of Preservatives in Foods on Health and Digestion. (From Yearbook of Department of Agriculture for 1903.)

Annual Report of the Porto Rico Agricultural Experiment Station for 1903. (Reprint.) (From Annual Report of the Office of Experiment Stations for 1903.) Reprint.

FARMERS' BULLETINS.

Experiment Station Work XXVII. Compiled from the Publications of the Agricultural Experiment Stations. Prepared in the Office of Experiment Stations, A. C. True, Director. Pp. 32, figs. 7. (Farmers' Bulletin No. 210.)

CONTENTS: Hen manure—Nitrate of soda for field crops—Varieties, culture, and quality of wheat—Breeding corn—Quality of irrigated crops—Shading strawberries and vegetables—Injuries to shade trees—Soft corn—Hay substitutes—Oak leaves as forage—The covered milk pail—Canning cheese—Millet seed for hogs—Fertilizers for potatoes.

REPRINTS.

No. 65.—Experiment Station Work—II.

No. 95.—Good Roads for Farmers.

No. 184.—Marketing Live Stock.

No. 203.—Canned Fruits, Preserves, and Jellies: Household Methods of Preparation.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 9. September, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 401-444, pls. 2, charts 10. (W. B. No. 318.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., December 31, 1904.

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1904.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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NEW PUBLICATIONS.

REPORTS.

Report of the Secretary of Agriculture. 1904. Pp. 99. (Report No. 79.)

> Special Report on Diseases of Cattle. By Drs. Pearson, Murray, Atkinson, Lowe, Harbaugh, Law, Dickson, Mohler, Trumbower, Salmon, Smith, and Stiles. Pp. 533, pls. 52, figs. 12.

CONTENTS: Administration of medicines—Diseases of the digestive organs—Poisons and poisoning—Diseases of the heart, blood vessels, and lymphatics—Noncontagious diseases of the organs of respiration—Diseases of the nervous system—Diseases of the urinary organs—Diseases of the generative organs—Diseases following parturition—Diseases of young calves—Bones: Diseases and accidents—Surgical operations—Tumors affecting cattle—Diseases of the skin—Diseases of the foot—Diseases of the eye and its appendages—Diseases of the ear—Infectious diseases of cattle—The animal parasites of cattle—Mycotic stomatitis in cattle.

This is a Congressional publication and the allotment to the Department is so small that it will have none for general distribution. Persons desiring copies of the report should apply to their Senators, Representatives, or Delegates in Congress. It may also be obtained from the Superintendent of Documents at 65 cents.

BULLETINS.

> Index-Catalogue of Medical and Veterinary Zoology. [Authors: G to Gmelin.] By Ch. Wardell Stiles, Ph. D., Consulting Zoologist of Bureau of Animal Industry; Zoologist of U. S. Public Health and Marine-Hospital Service, and Albert Hassall, M. R. C. V. S., Veterinary Inspector, Bureau of Animal Industry. Pp. 511–572. (Bulletin No. 39, Part 7, Bureau of Animal Industry.) Price 5 cents.

> Same. [Authors: Gobe to Gyser.] Pp. 573–659. (Bulletin No. 39, Part 8, Bureau of Animal Industry.) Price 5 cents.

> Manson's Eye Worm of Chickens (*Oxyspirura Mansoni*), With a General Review of Nematodes Parasitic in the Eyes of Birds, and Notes on the Spiny-suckered Tapeworms of Chickens (*Davainea echinobothrida* (= *Tenia botrioplites*) and *D. tetragona*). By B. H. Ransom, B. Sc., A. M., Scientific Assistant in Charge of the Zoological Laboratory, Bureau of Animal Industry. Pp. 72, pls. 1, figs. 52. (Bulletin No. 60, Bureau of Animal Industry.) Price 20 cents.

Foot-Rot of Sheep: Its Nature, Cause, and Treatment. By John R. Mohler, V. M. D., Chief of Pathological Division, Bureau of Animal Industry, and Henry J. Washburn, D. V. S., Acting Assistant Chief of Pathological Division, Bureau of Animal Industry. Pp. 39, pls. 3, fig. 1. (Bulletin No. 63, Bureau of Animal Industry.) Price 10 cents.

Influence of Food Preservatives and Artificial Colors on Digestion and Health. I.—Boric Acid and Borax. By H. W. Wiley, M. D., with the Collaboration of W. D. Bigelow, Chief of the Division of Foods and Others. Pp. 477, figs. 8. (Bulletin No. 84, part 1, Bureau of Chemistry.) Price 30 cents.

Experiment Station Record. Vol. XVI, No. 4. E. W. Allen, Ph. D., Editor. Pp. viii, 313-420. (No single number of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Experiment Station Work. Vol. II, No. 7. Prepared in Office of Experiment Stations. A. C. True, Director. Pp. xiv, 169-196, figs. 7.

Golden Seal. By Alice Henkel, Assistant, and G. Ford Klugh, Scientific Assistant, Drug and Medicinal Plant Investigations. Botanical Investigations and Experiments. Pp. 16, pls. 2, figs. 4. (Bulletin No. 51, Part VI, Bureau of Plant Industry.) Price 5 cents.

American Varieties of Lettuce. By W. W. Tracy, jr., Assistant, Variety Trials. Botanical Investigations and Experiments. Pp. 103, pls. 27. (Bulletin No. 69, Bureau of Plant Industry.) Price 15 cents.

Cultivation of Wheat in Permanent Alfalfa Fields. By David Fairchild, Agricultural Explorer. Seed and Plant Introduction and Distribution. Pp. 5. (Bulletin No. 72, Part 1, Bureau of Plant Industry.) Price 5 cents.

International Sugar Situation. Origin of the Sugar Problem and Its Present Aspects Under the Brussels Convention. By Frank R. Rutter, Assistant Chief, Division of Foreign Markets. Pp. 98, pls. 4, fig. 1. (Bulletin No. 30, Bureau of Statistics.) Price 10 cents.

REPRINTS.

Bulletin No. 70, Bureau of Chemistry. Manufacture of Table Sirups from Sugar Cane. Price 10 cents.

Bulletin No. 147, Office of Experiment Stations. Report on Drainage Investigations, 1903. Price 10 cents.

Bulletin No. 70, Bureau of Plant Industry. The Commercial Status of Durum Wheat. Price 10 cents.

Bulletin No. 8, Division of Pomology. Revised Catalogue of Fruits Recommended for Cultivation in the Various Sections of the United States and British Provinces. Price 5 cents.

Experiment Station Record. Vol. XIV, No. 1. (Not available.)

CIRCULARS.

NEW.

A Review of Some Experimental Work in Pig Feeding. By George M. Rommel, B. S. A., Expert in Animal Husbandry, Bureau of Animal Industry. Pp. 51. (Circular No. 63, Bureau of Animal Industry.)

waiting

A New Nematode (*Gongylonema ingluvicola*) Parasitic in the Crop of Chickens. By Brayton H. Ransom, B. Sc., A. M., Acting Zoologist. Pp. 3, figs. 2. (Circular No. 64, Bureau of Animal Industry.) ✓

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1904. Pp. 19. (Circular No. 20, Bureau of Chemistry.) Wanting

Proposed Regulations Governing the Labeling of Imported Food Products. Pp. 2. (Circular No. 21, Bureau of Chemistry.) ✓

Progress Report on the Strength of Structural Timber. By W. Kendrick Hatt, Ph. D., Civil Engineer in the Bureau of Forestry. Pp. 28. (Circular No. 32, Bureau of Forestry.) ✓

Monthly List of Publications, November, 1904. Pp. 4. (No. 506, Division of Publications.)

List of Bulletins and Circulars Issued by the U. S. Department of Agriculture and Available for Free Distribution. Corrected to November 1, 1904. Pp. 36. (No. 247, Division of Publications, twelfth edition.)

Crop Reporter. Vol. 6, No. 8. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 57-64.

A three-column quarto publication devoted to agricultural statistics.

Supplement to December Crop Reporter. Pp. 65-72.

REPRINTS AND ADVANCE SHEETS.

Circular No. 48, Bureau of Animal Industry. Scales of Points for Judging Cattle of Dairy Breeds.

Circular No. 52, Bureau of Animal Industry. A Chemical Examination of Various Tubercle Bacilli.

Circular No. 57, Bureau of Animal Industry. Invisible Microorganisms.

Circular No. 59, Bureau of Animal Industry. Influence of Formaldehyde on the Digestive Enzymes.

Circular No. 56, Bureau of Entomology. The Most Important Step in the Cultural System of Controlling the Boll Weevil.

Circular No. 30, Office of Road Inquiry. Repairs of Macadam Roads.

Progress of Agriculture in the United States. (From Yearbook of Department of Agriculture for 1899.) Reprint.

Office of Road Inquiry. Object-Lesson Roads. (From Yearbook of Department of Agriculture for 1897.) Reprint.

Distribution and Magnitude of the Poultry and Egg Industry. (From Nineteenth Annual Report of the Bureau of Animal Industry.) Reprint.

The American Saddle Horse. (From Nineteenth Annual Report of the Bureau of Animal Industry.) Reprint.

Soil Survey of the Brookings Area, South Dakota. By Frank Bennett, jr. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 19, fig. 1. Map.

Soil Survey of the Pontiac Area, Michigan. By Henry J. Wilder and W. J. Geib. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 31, fig. 1. Map.

Soil Survey of the Marshall Area, Minnesota. By Henry J. Wilder. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 21, fig. 1. Map.

Soil Survey of Johnson County, Illinois. By George N. Coffey and C. W. Ely, Assisted by R. C. Lloyd, Clifford Willis, A. F. Kidder, and G. A. Crosthwaite, of the Illinois Agricultural Experiment Station. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 20, fig. 1. Map.

Soil Survey of Sangamon County, Illinois. By George N. Coffey and C. W. Ely, Assisted by J. G. Mosier and A. F. Kidder, of the Illinois Experiment Station. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 21, fig. 1. Map.

Soil Survey of the San Jose Area, California. By Macy H. Lapham. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 39, fig. 1. Map.

Soil Survey of Madison County, Indiana. By R. T. Avon Burke and La Mott Ruhlen. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 19, fig. 1. Map.

Soil Survey of the Asheville Area, North Carolina. By J. E. Lapham and F. N. Meeker. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 23, fig. 1. Map.

Soil Survey of the Leesburg Area, Virginia. By William T. Carter, jr., and W. S. Lyman. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 45, fig. 1. Map.

FARMERS' BULLETINS.

Varieties of Fruits Recommended for Planting. Compiled by W. H. Ragan, Expert in Pomological Nomenclature, Bureau of Plant Industry. Pp. 48, (Farmers' Bulletin No. 208.)

The fruit districts of the United States and adjacent territory, and lists of fruits adapted to the various sections.

The Use of Paris Green in Controlling the Cotton Boll Weevil. By W. D. Hunter, Special Agent in Charge of Cotton Boll Weevil Investigations, Bureau of Entomology. Pp. 23. (Farmers' Bulletin No. 211.)

Shows that the use of Paris green in controlling the boll weevil is absolutely futile.

REPRINTS.

No. 28.—Weeds and How to Kill Them.

No. 35.—Potato Culture.

No. 41.—Fowls: Care and Feeding.

No. 42.—Facts About Milk.

No. 44.—Commercial Fertilizers: Composition and Use.

No. 51.—Standard Varieties of Chickens.

No. 74.—Milk as Food.

No. 106.—Breeds of Dairy Cattle.

No. 127.—Important Insecticides: Directions for Their Preparation and Use.

No. 170.—Principles of Horse Feeding.

No. 181.—Pruning.

No. 182.—Poultry as Food.

No. 198.—Strawberries.

No. 200.—Turkeys: Standard Varieties and Management.

No. 209.—Controlling the Boll Weevil in Cotton Seed and at Ginneries.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 10. October, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 445-496, figs. 11, charts 11. (W. B. No. 319.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (No. 31 for the month of November, 1904.)

Snow and Ice Bulletin for Tuesdays, December 6, 13, 20, and 27, 1904. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Approved:

JAMES WILSON,
Secretary of Agriculture.

GEO. WM. HILL,
Editor and Chief.